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Document Information

Contact Person:	Raul Vorsmann	Department:	GroupEAD Europe S.L.
Phone/Fax:	+49 69 78072 890	E-mail:	raul.vorsmann@groupead.com

Document produced by:

GroupEAD Europe S.L.
Heinz-Michael Kraft
Parque Empresarial Pegaso City
Avda. de Aragón nº 402
Autovía A-2, Km. 14
28022, Madrid

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1 Introduction

1.1 Purpose and Scope

The purpose of this document is to provide EAD Data Providers and Users the description of changes being implemented with EAD Release 9. The document represents a snapshot at the time the document is produced and changes (to the document) are not foreseen. For further details on the new functionalities, it is recommended to consult the different user manuals.

Every Change Proposal described in this document contains a unique key (e.g. CHM-257), which can be used in EAD Change Management Tool for obtaining more detailed description of the change. EAD Change Management Tool is available via URL: <http://chm.ead-it.com> by dedicated users.

The structure of this document is as follows:

- Chapter 1: Introduction
- Chapter 2: SDO
- Chapter 3: INO Data Provider
- Chapter 4: INO Data User
- Chapter 5: PAMS
- Chapter 6: AIP
- Chapter 7: Chart Production
- Chapter 8: Basic Software
- Chapter 9: ESI/AIMSL

Note:

This document contains references to affected procedures in Operational User Handbook Data User (EAD-DOC-GEKEB9) and Operational User Handbook Data Provider (EAD-DOC-GEKB38). Both named documents will be updated for Release 9 to reflect the impact of the changes.

1.2 Changes excluded from the document

Following **R9 changes** are **excluded** from this document due to their **technical nature**:

CHM-1728	SDO	Single Data User Applet – Reduction of Download Size
CHM-2430	SDO	EAD Server Side – Weblogic upgrade to 12
CHM-2431	SDO	EAD Client Side, ECIT – Java 1.7.0_40 32-bit
CHM-2432	SDO	EAD Client Side, ECIT – Internet Explorer 10
CHM-2433	SDO	Clean-up of SDO log data
CHM-2434	SDO	EAD Client Side, ECIT – FireFox 24
CHM-2451	SDO	SDO Slot Meta Data and Extended Mapping
CHM-2407	INO DP	INO DP BS Release 9, Server Weblogic 12, Java 1.7, Forms
CHM-219	INO DU	JMS over HTTP
CHM-1051	INO DU	Expose INODU Maintain Briefing Facilities to WS
CHM-1052	INO DU	Expose INODU Receive Briefing Facilities Messages to WS
CHM-1729	INO DU	Single Data User Applet – Reduction of Download Size
CHM-2408	INO DU	BF Box Basic Software Server Upgrade

CHM-2409	INO DU	BF Box Basic Software Upgrade – DNS
CHM-2411	INO DU	Provide the INO-BF service provision over AIMSL
CHM-2412	INO DU	Server side DNS instead of EAD Starter INO DU
CHM-2425	INO DU	Basic Software Browser Upgrade
CHM-2426	INO DU	Basic Software Browser Upgrade IE 10
CHM-2427	INO DU	Basic Software Client Java Upgrade
CHM-2428	INO DU	Basic Software Server Upgrade
CHM-2405	Graphical Tools	Basic Software Client Java 1.7, IE10, Mozilla Firefox 24
CHM-2424	Graphical Tools	Basic Software Java 1.7 Server Weblogic 12, Java 1.7
CHM-1727	PAMS	Single Data User Applet – Reduction of Download Size
CHM-2429	PAMS	PAMS BS Release 9, Server, Java 1.7
CHM-2365	AIP	Basic Software upgrade EAD starter to be removed
CHM-2366	AIP	Basic Software upgrade ESI API 7.4
CHM-2367	AIP	Basic Software upgrade Visual C++
CHM-2368	AIP	Basic Software upgrade to FrameMaker 11
CHM-2369	AIP	Basic Software upgrade to Firefox 24
CHM-2370	AIP	Basic Software upgrade to Internet Explorer 10
CHM-2371	AIP	Basic Software Upgrade to Acrobat Reader 11
CHM-2372	AIP	Basic Software upgrade Client side Java Upgrade R9
CHM-2484	Basic Software	Fusion 12/java 7/64bit for java applications on the EAD Server side
CHM-2485	Basic Software	Fusion 11g Release 2/Java 6/64 Bit for forms applications on the EAD Server side
CHM-2493	Basic Software	Migration of T-Systems auxiliary cluster packages to High Availability TSA ESX cluster
CHM-2392	AIMSL	Basic Software Server Upgrade
CHM-2393	AIMSL	AIMSL processing split into B2B and B2C and Subsystem
CHM-2455	AIMSL	AIMSL Integration of the Metadata API
CHM-2404	ESI	ESI: Basic Software Release 9
CHM-771	Common Services	Common Distribution Component
CHM-2396	Common Services	Basic Software Browser Upgrade Firefox 24
CHM-2397	Common Services	Basic Software Browser Upgrade Internet Explorer 10
CHM-2398	Common Services	Basic Software Client Upgrade to Java 1.7.0_40
CHM-2399	Common Services	Basic Software Server Upgrade – CS
CHM-2401	Common Services	Integration of INO-BF services over AIMSL
CHM-2402	Common Services	Server side DNS instead of EAD Starter
CHM-2423	Common Services	EAD Basic NEW Content Migration to OpenCMS
CHM-2454	Common Services	Meta Data API
CHM-2492	Hardware/LAN	T-Systems site SAN Upgrade
CHM-2508	Hardware/LAN	Hardware Renewal ESX Cluster at FRQ site
CHM-2512	Hardware/LAN	T-Systems site Monitoring Server Upgrade
CHM-2517	Hardware/LAN	Use of Remote Authentication Dial in User Service in EAD

Following **R9 changes** are **excluded** from this document due to their **administrative nature**:

CHM-875	SDO	Improved Search for Public Slots
CHM-1254	SDO	HMI for User Extension
CHM-1631	SDO	Worldwide AIXM Download without Spatial Query
CHM-1822	SDO	Empty files excluded from "Created (file invalid)"
CHM-2413	SDO	Download process management
CHM-2461	SDD	Download HMI
CHM-2386	AIP	Additional ASM Functionality
CHM-1603	Common Services	UMS – Automated rollout and revocation of ESI certificates

2 Static Data Operations (SDO)

The following SDO changes are deployed with **Release 9**:

- Change Proposal CHM-451 Mandatory Parameters for SDO Reports
- Change Proposal CHM-1381 SDO Reporting view for Navaids
- Change Proposal CHM-1745 AIXM Download files should have a file extension

2.1 Mandatory Parameters for SDO Reports (CHM-451)

This change introduces a possibility to mark an advanced parameter as mandatory in the SDO report that are accessible in Data User. This will help to reduce the number of “unfiltered” report requests that take very high amount of processing time.

New checkbox named “Mandatory” will be available in the “Define New Report” screen for this purpose.

Define Report - Entity: Aerodrome / Heliport - Version

Entity Attributes Sorting Order Advanced Parameters Filter Report S

Type: TEXT Name: param1

☐ Mandatory Label: Ident

Add

Remove

Up

Down

Edit Label

Remark:

The Identifier

Figure 2-1 Data User – Define Report

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

2.2 SDO Reporting view for Navaids (CHM-1381)

A new database view is introduced for SDO Reports in Data User that allows user to retrieve all navigational aids in one report (DME, NDB, TACAN, VOR, VORTAC, VOR/DME). The database view is named “NAVAID with FIR information” and is available for selection in Define Report screen.

Define Report - Entity: NAVAID with FIR Information

Entity Attributes Sorting Order Advanced Parameters Filter Report Style

Entities

- MSA group - Version
- Minimum sector altitude [MSA]
- NAVAID with FIR Information
- NDB - Timetable
- NDB - Version
- NDB usage limitation - Version

Navigation Aids: VOR, DME, TACAN, NDB, VOR/DME, VORTAC

Find entity containing

Clear Find

➤

Figure 2-2 Data User – Define Report

Impact on OUH: Operational User Handbook – Data User, chapter 12

Impact on user: Update of internal procedures to be considered: **No**

2.3 AIXM Download files should have a file extension (CHM-1745)

AIXM download files are currently delivered without a specific filename extension. This is changed and for all AIXM files created from EAD, the extension .xml is added automatically. This makes the handling of the files on user side easier as the associated program to open the files can be identified automatically.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

3 Static and Dynamic Data (SDD)

The following SDD changes are deployed with **Release 9**:

- | | |
|----------------------------------|--|
| • Change Proposal CHM-2456, 2458 | Extend the Mapping from AIXM 4.5 to 5.1 |
| • Change Proposal CHM-2457, 2459 | Extend the Download |
| • Change Proposal CHM-2460 | Adoption of Minimum Static Data Set with new Mapping Guidelines Document |
| • Change Proposal CHM-2461 | Download HMI |

3.1 Mapping from AIXM 4.5 to 5.1 (CHM-2456, CHM-2458)

In order to support the full download of AIXM 5.1 data in EAD, the existing mapping from AIXM 4.5 to 5.1 is extended to include the below listed entities (on top of already mapped minimum dataset entities).

Priority 1 (CHM-2456)

AERO_GND_LGT
AD_HP_OBSTACLE
AD_HP_GND_SER
ANGLE_INDICATION
APRON
DISTANCE_INDICATION
DME_USAGE_LIMIT
FATO_CLINE_POINT
FATO_DIRECTION_ALS
FATO_DIRECTION_DECL_DIST
FATO_DIRECTION
FREQUENCY
FATO
FUEL
GATE_STAND
HOLDING_PROCEDURE
IAP
IAP_USAGE
NDB_USAGE_LIMIT
OBSTACLE
OIL
PASSENGER_FACILITY
RWY_CLINE_POINT
RWY_DIRECTION_ALS
RWY_DIRECTION_DECL_DIST
RWY_DIRECTION_OBSTACLE
RWY_DIRECTION_STAR
RWY_PROTECT_AREA
SERVICE_IN_AIRSPACE
SERVICE_AT_AD_HP
SERVICE
SERVICE_ON_HOLDING_PROC

STAR
SID
SERVICE_ON_IAP
SERVICE_ON_RTE_SEG
SERVICE_ON_SID
STAR_USAGE
SERVICE_ON_STAR
SID_USAGE
SWY
TWY_CLINE_POINT
TLOF
TACAN_USAGE_LIMIT
TLOF_SAFE_AREA
TWY
UNIT_ASSOC
UNIT
VOR_USAGE_LIMIT

Priority 2 (CHM-2458)

AD_HP_GND_SER_ADDRESS
APRON_LGT_SYS
FATO_DIRECTION_LGT_SYS
MSA_GROUP
NAV_SYS_CHECKPOINT
NITROGEN
OXYGEN
PREDEFINED_LVL_TABLE
PREDEFINED_LVL_COLUMN
RWY_DIRECTION_LGT_SYS
SPEC_NAV_STATION
SPEC_NAV_SYS
TWY_HOLDING_POSITION
TLOF_LGT_SYS
TWY_LGT_SYS

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

3.2 AIXM 5.1 Download (CHM-2457, CHM-2459)

AIXM 5.1 download of full dataset is made available to all EAD users. For receiving the data, a download request must be submitted via EAD Service Desk, detailing the request specification (see updated Operational User Handbook – Data User), like for any other download request.

An internal mapping and replication of data from AIXM 4.5 to AIXM 5.1 format is introduced for this purpose (see chapter above). This change addresses the download function – to cover full dataset (minimum dataset plus the entities listed in chapter 3.1 of this document).

Certain limitations are applicable to the AIXM 5.1 download in EAD. The detailed list of those limitations will be made to all users via EAD Knowledge Base.

Impact on OUH: Operational User Handbook – Data User, chapter 6.4

Impact on user: Update of internal procedures to be considered: **Yes**

3.3 Adoption of Minimum Static Data Set with new Mapping Guidelines Document (CHM-2460)

This change is for updating and aligning the already existing AIXM 4.5 to 5.1 mapping of SDO minimum dataset with the “AIXM 4.5 to AIXM 5.1 Mapping Guidelines” document (EAD/DOC-ECRE5D). This is needed to eliminate some of the existing deviations in the implemented mapping rules. But also to identify the cases when deviations from the guidelines are required.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

4 INO Data Provider

The following INO Data Provider changes are deployed with **Release 9**:

- | | |
|----------------------------|---|
| • Change Proposal CHM-294 | SNOWTAM Proposal |
| • Change Proposal CHM-295 | SNOWTAM creation enhancements |
| • Change Proposal CHM-1281 | NOTAM creation with multiple FIR – update Q-FIR automatically |
| • Change Proposal CHM-1282 | NOTAM – handling of WIE in Item B |
| • Change Proposal CHM-1285 | NOTAM / SNOWTAM Validate function and Preview |
| • Change Proposal CHM-1340 | NOTAM History enhancements |
| • Change Proposal CHM-1355 | Distribution of Messages to Mail, Fax and SMS |
| • Change Proposal CHM-1377 | Address book |
| • Change Proposal CHM-1647 | Additional NOTAM validation checks |
| • Change Proposal CHM-2406 | Automated reporting via Workflow Management Tool |
| • Change Proposal CHM-2418 | Partitioning of NOTAM history |
| • Change Proposal CHM-2488 | Automatic NOTAM checklist proposal generation |

4.1 SNOWTAM Proposal (CHM-294)

This change introduced the SNOWTAM Proposal capability in INO DP. This new handling functionality is similar to already existing NOTAM Proposal.

PROPOSAL FORMAT

The AFTN address for submitting SNOWTAM Proposals is EUECYIYP.

The SNOWTAM proposal format is as follows:

SNOWTAM PROPOSAL <NOF> <number>

Items from A to T following the syntax rules for SNOWTAM Items

The following elements of the SNOWTAM proposal are **mandatory**:

SNOWTAM PROPOSAL <NOF>

Item A

Item B

The SNOWTAM proposal can optionally contain the start and end bracket.

Examples of syntactically correct proposals:

SNOWTAM PROPOSAL LSSN 0002

A) LSZS

B) 059291445

C) 03

F) NIL/NIL/NIL

H) 1/1/1

T) RWY, TWY, APN AND HELIPAD NORMAL CONDITIONS

SNOWTAM PROPOSAL LSSN

A) LSZS

B) 059291445

The <NOF> is part of the SNOWTAM proposal format solely for identifying the processing NOTAM Office, to assure that different organisation in EAD can process only proposal belonging to their organisation. It is removed during the creation of the final SNOWTAM.

The Proposal can optionally contain the number but it is ignored during the creation. The INO DP provides the expected number automatically regardless of the entry in the proposal.

PROPOSAL SCREENS

The following screens are provided for managing SNOWTAM proposals:

- List of Unprocessed SNOWTAM Proposals
- List of Processed SNOWTAM Proposals
- List of Rejected SNOWTAM Proposals

The screenshot shows the INO DP software interface. The title bar reads 'INO Menu' and 'List of unprocessed Snowtam proposals'. The left sidebar contains a tree view with 'Messages' expanded, showing 'Snowtam' selected. Below this is a 'Queue Monitor' section with counts for Messages (Incoming: 3, Stored: 0, Undelivered: 7), NOTAM (EST: 26, Draft: 0, PERM: 15), and NOTAM/ SNOWTAM Proposals (Unprocessed: 8, SNOWTAM Proposal Unprocessed: 1).

The main area displays a table of proposals:

NOF	Filing Time	Originator	No	Loc. id	Valid from
EBBR					
EBBR	100852	EBBRTEST		EBBR	07100830

Buttons for 'Refresh' and 'Reset' are below the table. To the right are 'Delete' buttons: 'Current', 'All', and 'Selected'.

Below the table is a 'Text' area containing the following text:

```

SNOWTAM PROPOSAL EBBR
A) EBBR
B) 07100830 C) 02 D) 2000 E) 12L F) 3/5/7 G) 20/30/40 H) 2/3/2 K) YESLR
T) PROPOSAL TEST 1
  
```

To the right of the text area are 'Use' and 'Reject' buttons.

At the bottom, a status bar shows 'NOF' and 'Record: 1/1'.

Figure 4-3 INO DP – List of Unprocessed SNOWTAM Proposals

AUTOMATIC REPLY MESSAGES

The following text is sent to the originator upon reception of SNOWTAM proposals with erroneous format:

*MESSAGE NOT ACCEPTED AS SNOWTAM PROPOSAL DUE TO FORMAT ERRORS.
EXPECTED FORMAT:
MESSAGE MUST BEGIN WITH HEADER WITH FOLLOWING FORMAT
SNOWTAM PROPOSAL NOF NUMBER
A) AERODROME
B) DATE
WHERE NUMBER IS OPTIONAL, AERODROME IS A VALID AERODROME AND*

DATE IS OF FORMAT MMDDHHMI

The following text is sent to the originator upon manual rejection of SNOWTAM proposals by INO operator containing standard text, the original proposal and the reason for rejection:

THE SNOWTAM PROPOSAL HAS BEEN REJECTED, PLEASE GET IN CONTACT WITH AN OPERATOR
<SNOWTAM proposal text>
<Reason for rejection>

The following text is sent to the originator in case the proposal is used by INO operator for creating a SNOWTAM, containing standard text, the original proposal and the created SNOWTAM:

THE SNOWTAM PROPOSAL HAS BEEN USED
<SNOWTAM proposal text>
<SNOWTAM text>

QUEUE COUNTER

The following counters are available for all organizations, to be included in the Queue Monitor if needed:

- Unprocessed SNOWTAM Proposals
- Rejected SNOWTAM Proposals

Queue Monitor	
AFTN	
Freetext	2
Stored	0
NOTAM	
EST	51
Draft	0
PERM	35
NOTAM Proposal	
Unprocessed	11
SNOWTAM Proposal	
Unprocessed	2
Rejected	1

Figure 4-4 INO DP – Queue Monitor

ESI/AIMSL

The ESI / AIMSL SNOWTAM service is extended to support the creation of SNOWTAM Proposals. The XML schema is extended with the following 2 requests:

1. SnowtamProposalStore:
 - a. The request shall contain the same elements as for SNOWTAM creation (except for COR is not allowed) extended with the mandatory NOF element.
 - b. The response contains the same information as the request and additionally a system generated identifier (UUID) of the SNOWTAM proposal for further reference (similarly to the NOTAM proposal handling).

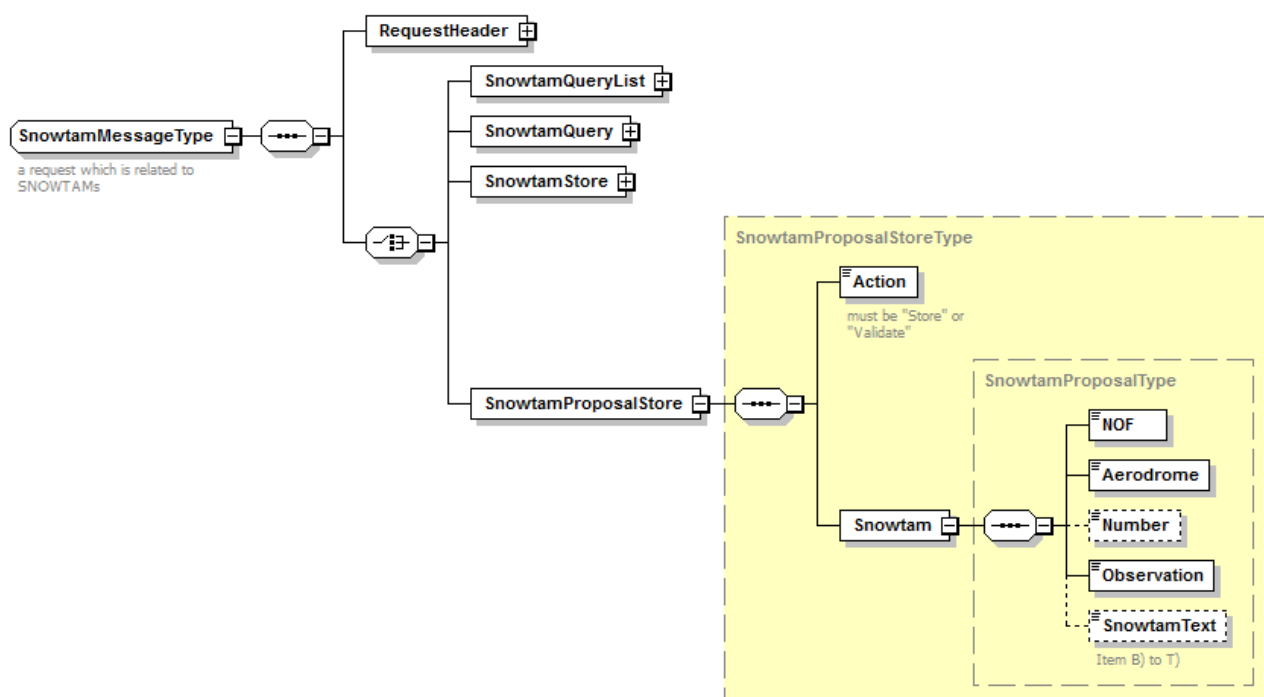


Figure 4-5 XML Schema – SnowtamProposalStore

2. SnowtamProposalQuery:

- The request shall specify the system generated identifier of the SNOWTAM proposal in question
- The response contains the information from the SNOWTAM proposal as stored in the system

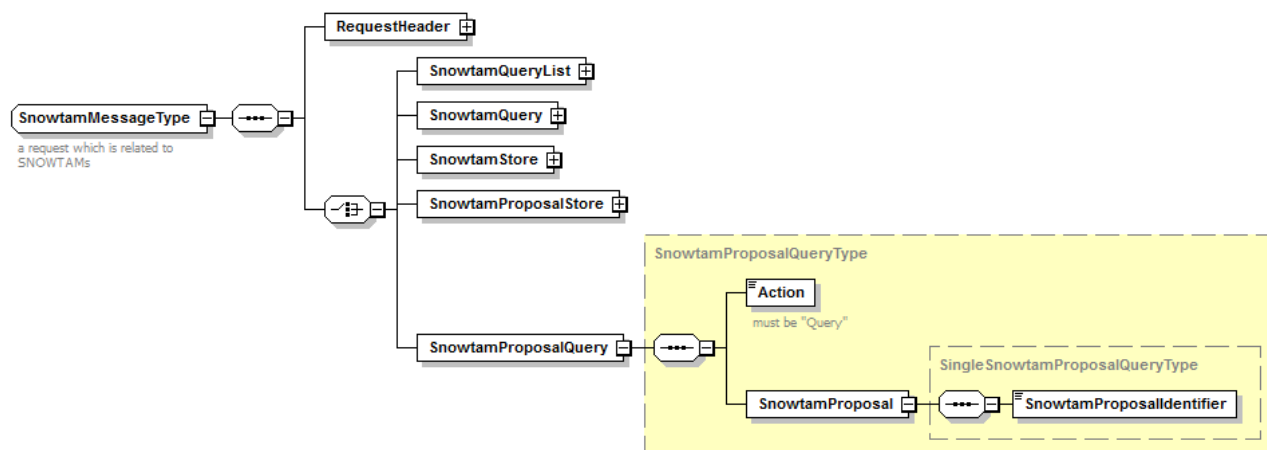


Figure 4-6 XML Schema – SnowtamProposalQuery

Impact on OUH: Operational User Handbook – Data Provider, chapter 9

Impact on user: Update of internal procedures to be considered: **Yes**

4.2 SNOWTAM creation enhancements (CHM-295)

To avoid overlooking RWY group information during SNOWTAM creation, the following adjustments are made to the SNOWTAM screen:

- New iconic buttons for navigation between RWY records
- New iconic buttons for inserting and deleting a RWY record
- A new display field which dynamically indicates the record number where the cursor is currently located and the number of RWY records

The screenshot shows the 'New SNOWTAM' window. The 'Heading lines' section contains fields for NL (SW), No (LO), AD (0021), Obs. Time (LOWW), and optional group (COR) (09170828). The 'RWY Informations' section includes fields B) (09170828), C) (11), D) (120), E) (100), F) (1/1/1), G) (1/1/1), H) (2 / 2 / 2), J), K), L), M), N), and P). A set of navigation buttons (back, forward, first, last) and a 'Record 1 of 2' indicator are highlighted with a red box. The 'Further Informations' section has fields R) and T) (TEXT). The bottom section shows 'Errors/Warnings' and 'Distribution Addresses' with lists for Group and Single addresses.

Figure 4-7 INO DP – New SNOWTAM

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

4.3 NOTAM creation with multiple FIR – update Q-FIR automatically (CHM-1281)

This change simplifies the creation of NOTAM with multiple Item A) values. The INO DP will automatically update the Q-FIR for NOTAM having more than one FIRs in Item A) immediately after the operator applies the second Item A). There are two scenarios

- 02nd, 03rd and 04th character are replaced with XXX. This is done only for selected NOFs that are listed in an internal table.
- 03rd and 04th character are replaced with XX. This is done for all NOFs (majority) that are NOT listed in the internal table mentioned above.

In case the multiple values are removed from Item A), the Q-FIR is also updated to reflect the single remaining FIR (also the coordinates and radius).

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

4.4 NOTAM – handling of WIE in Item B (CHM-1282)

In case WIE is used in the Item B during NOTAM creation, the conversion to current time will take place at the moment of Save/Distribute. This replaces current behaviour that fills in the time instantly during creation (moving to next NOTAM item in the application).

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

4.5 NOTAM / SNOWTAM Validate function and Preview (CHM-1285)

A new function is introduced in INO DP that provides the possibility to validate NOTAM or SNOWTAM during the creation/processing without actually storing and distributing it. The Validate function is available via icon or menu command File/Preview. The result is a read-only preview of the NOTAM or SNOWTAM that may then be either closed or Saved/Distributed.

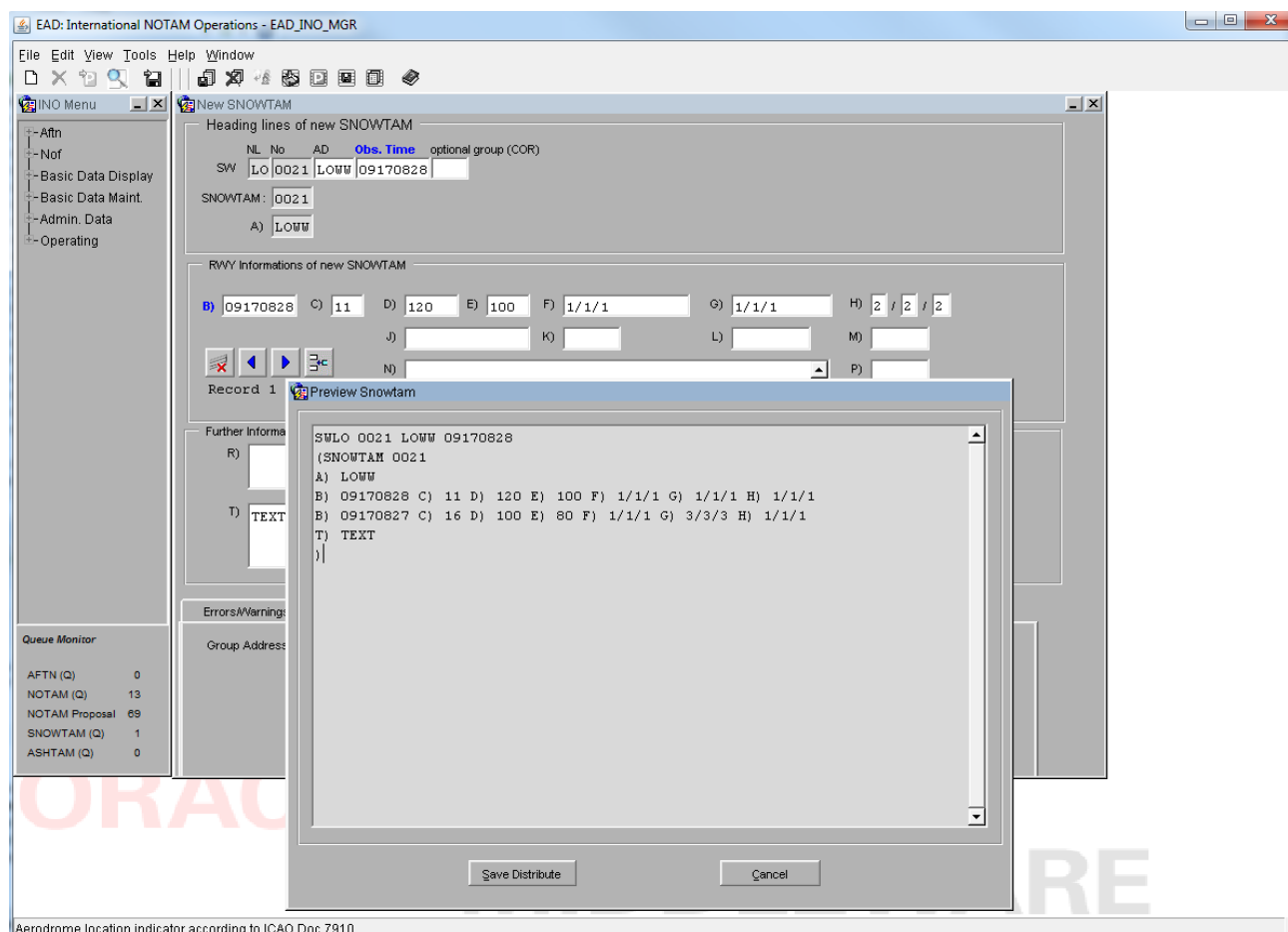


Figure 4-8 INO DP – Preview SNOWTAM

HANDLING OF ERRORS AND WARNINGS

1. If there is at least one error then no Preview is shown.
2. If there are only warnings, a single pop up is displayed “Message contains warning(s). Do you want to proceed to Preview anyway?” If the user confirms to proceed, the preview screen is displayed.

Note: the number 2 above does not mean that it is possible to “avoid” seeing all Warnings. They are displayed with separate messages and need to be acknowledged during the Save/Distribute of the NOTAM.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

4.6 NOTAM History enhancements (CHM-1340)

NOTAM History screen and function is enhanced by introducing the following changes:

SHOW ALL AND SHOW CUSTOMISED ONLY

A checkbox is introduced in NOTAM History screen that allows user to display:

1. All actions (checkbox not ticked)
2. Only Customised actions (checkbox ticked)

The actions that shall be part of customised view can be defined per organisation via dedicated parameter in CI tool. The actions that can be either included or not included are:

- “NOTAM History Custom List – NOTAM distributed to AFTN”
- “NOTAM History Custom List – NOTAM distributed to ESI”
- “NOTAM History Custom List – NOTAM linked”
- “NOTAM History Custom List – NOTAM replaced by”
- “NOTAM History Custom List – NOTAM cancelled by”
- “NOTAM History Custom List – NOTAM grouped”
- “NOTAM History Custom List – NOTAM ungrouped”
- “NOTAM History Custom List – NOTAMN created”
- “NOTAM History Custom List – NOTAMR created”
- “NOTAM History Custom List – NOTAMC created”
- “NOTAM History Custom List – NOTAMN created from NOTAM Proposal”
- “NOTAM History Custom List – NOTAMR created from NOTAM Proposal”
- “NOTAM History Custom List – NOTAMC created from NOTAM Proposal”
- “NOTAM History Custom List – NOTAM unlinked”
- “NOTAM History Custom List – NOTAM Remark added”
- “NOTAM History Custom List – NOTAM distributed to AIMSL”

An additional parameter is made available in CI tool that allows to define sorting order of the Customised view to either ascending or descending by time.

Corporate Identity Administrator g1_RPodlas ?

CI Property List

- SDO DU
- INO DU
- PAMS DU
- SDO IFS
- INO DP
- NOTAM History

NOTAM History Custom List - NOTAM distributed to AFTN

Description: Defines if this history action is available in the customized NOTAM history list

Validation: The property can either be activated or deactivated.

Default value: YES

Customized value:

NOTAM History Custom List - NOTAM distributed to ESI

Description: Defines if this history action is available in the customized NOTAM history list

Validation: The property can either be activated or deactivated.

Default value: YES

Customized value:

Figure 4-9 Corporate Identity – NOTAM History

EAD: International NOTAM Operations - EAD_INO_MGR

File Help Window

INO Menu

- Aftn
- Nof
- Notam
- Snowtam
- Birdtam
- Ashtam
- Atfm
- Missing Notam
- Message Parser
- Basic Data Display
- Basic Data Maint.
- Admin. Data
- Operating

Queue Monitor

AFTN (Q)	1075
NOTAM (Q)	303
Parked	2
NOTAM Proposal	197
SNOWTAM (Q)	0

NOTAM History

NOTAM Search

NOF	S	NumberYr	Search Result
EBBR	A	0148/13	NOTAM found as stored, History is recorded

Search and Display

☒ Show customized only

Print

Add Remark

NOTAM History NOTAM R/C Chain

Action	Action Time	Operator
NOTAMN created	23.07.2013 08:50:03	EAD_INO_MGR

Operators Remark

NOTAM Text

{A0148/13 NOTAMN
Q) EBBU/QFALC/IV/NBO/A /000/999/5
115N00433E005
A) EBAS B) 1307240500 C) 13072609
12EST
D) MON-FRI 0400-0915
E) TEST FOR BASED ON}

R/C NOTAM Text

Figure 4-10 INO DP – NOTAM History

LIST OF EST NOTAM

NOTAM History tab pane is also introduced to List of EST NOTAM and the printout from this List will contain the History actions that have operator remarks.

EAD: International NOTAM Operations - EAD_INO_MGR

File Edit View Data Tools Help Window

INO Menu

List of EST NOTAM

NOTAM with estimated validity ending before: 1307241004

NOF	S	No	Yr	B	C
EBBR					
EBBR	A	2736	11	1112302100	1208312100
EBBR	A	2737	11	1112302100	1208312100
EBBR	A	2740	11	1112311022	1206301600
EBBR	B	0224	12	1201310922	1207311922

Refresh Reset

Text

{A2736/11 NOTAMN
Q) EBBU/QLYAS/IV/M /A /000/999/5111N00428E005
A) EBAW B) 1112302100 C) 1208312100EST
E) TWY E ALL EDGE LIGHTS U/S. EDGE LIGHTS ARE REPLACED BY BLUE
RETROREFLECTIVE MARKERS (ICAO STANDARD)}

Print

Based on selection

NOTAMN NOTAMR
NOTAMC

Queue Monitor

AFTN (Q) 1075
NOTAM (Q) 303
Parked 2
NOTAM Proposal 197
SNOWTAM (Q) 0
ASHTAM (Q) 0

Original Message Admin-Info Ref. to RAC Proposal NOTAM History

Action	Action Time	Operator	Operators Remark
NOTAMN created	18.07.2013 08:09:42	EAD INO MGR	

Show customized only

Figure 4-11 INO DP – List of EST NOTAM

NOTAM HISTORY REMARK RESTRICTIONS

The NOTAM history screen “Add Remark” button is disabled in case the DATA PROVIDER has the history of a NOTAM open that does not belong to her/his own NOF.

The NOTAM history actions “NOTAM Remark added” will be visible only to users who belong to the NOF of the NOTAM. Furthermore the Remark added during NOTAM created action will also be visible only to users who belong to the NOF of the selected NOTAM.

Both of the above restrictions do not apply for EAD Staff (ADMINISTRATOR or COORDINATOR role).

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

4.7 Distribution of Messages to Mail, Fax and SMS (CHM-1355)

DISTRIBUTION

Distribution capabilities in INO DP are extended by introducing possibility to distribute messages to E-mail, Fax and SMS. The new distribution option will be available only on the below listed screens. The distribution to AFTN remains unchanged on all the named screens.

1. Repeat NOTAM Distribution screen
2. Repeat SNOWTAM Distribution screen
3. Repeat ASHTAM Distribution screen

4. Reject NOTAM Proposal screen
5. Reject SNOWTAM Proposal screen
6. New (Freetext) Message screen
7. Forward (Freetext) Message screen

Multiple entries can be included and the following separator characters can be used:

- Line feed (Enter)
- Comma (,)
- Semi-colon (;)

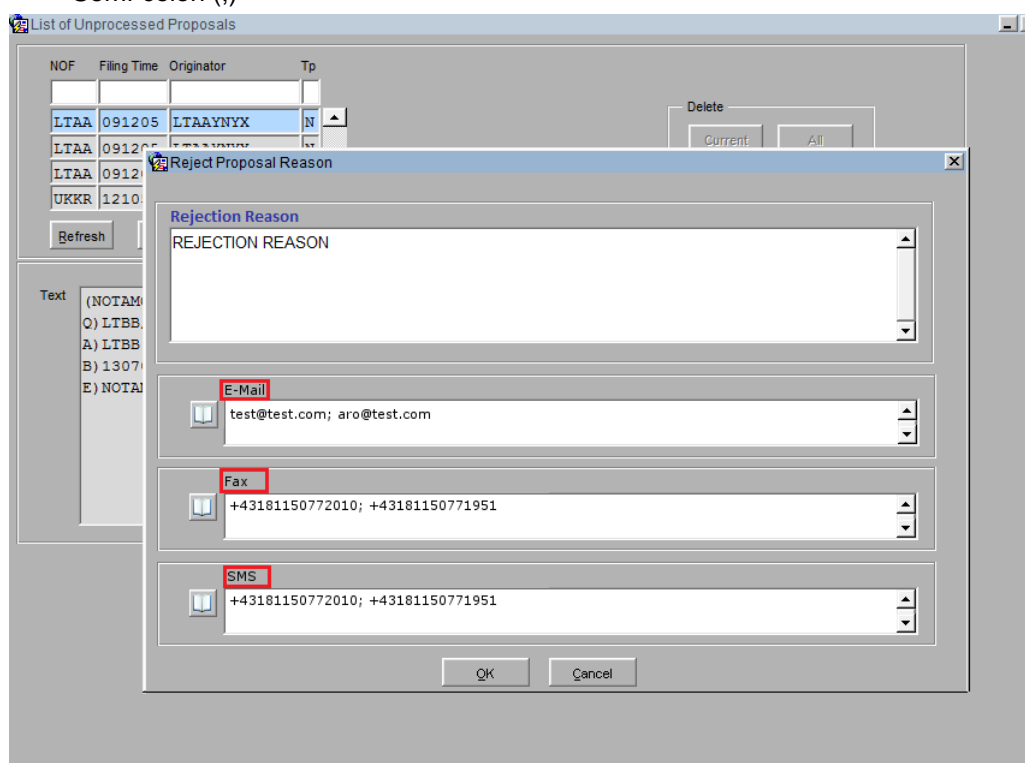


Figure 4-12 INO DP – Reject Proposal

MESSAGES

As part of this change, the Freetext Message functionality is made available to all users, accessible via item “Messages” in the INO DP menu tree. The actual use of the functionality is dependent on organisational setup:

1. AFTN related functions are available only if the organisation’s local AFTN switch is connected to INO DP via their BF-Box.
2. In order to use Fax and SMS functionality the following steps need to be performed per organisation (started and traced in in EAD SD):
 - a. Introduce Fax and SMS gateway on client side. Respective EAD Installation Plan shall be updated.
 - b. Data change by ITP for enabling CI properties for the organisation:
 - a. cs.distributioncomponent.faxgateway.available
 - b. cs.distributioncomponent.msggateway.available
 - c. CI properties enabled by CSO:
 - a. cs.distributioncomponent.faxgateway.available
 - b. cs.distributioncomponent.msggateway.available

The message handling and functionality for EAD staff remains unchanged.

The Messages function for clients provides the following screens/lists:

- **New Message**

User can create and send new messages

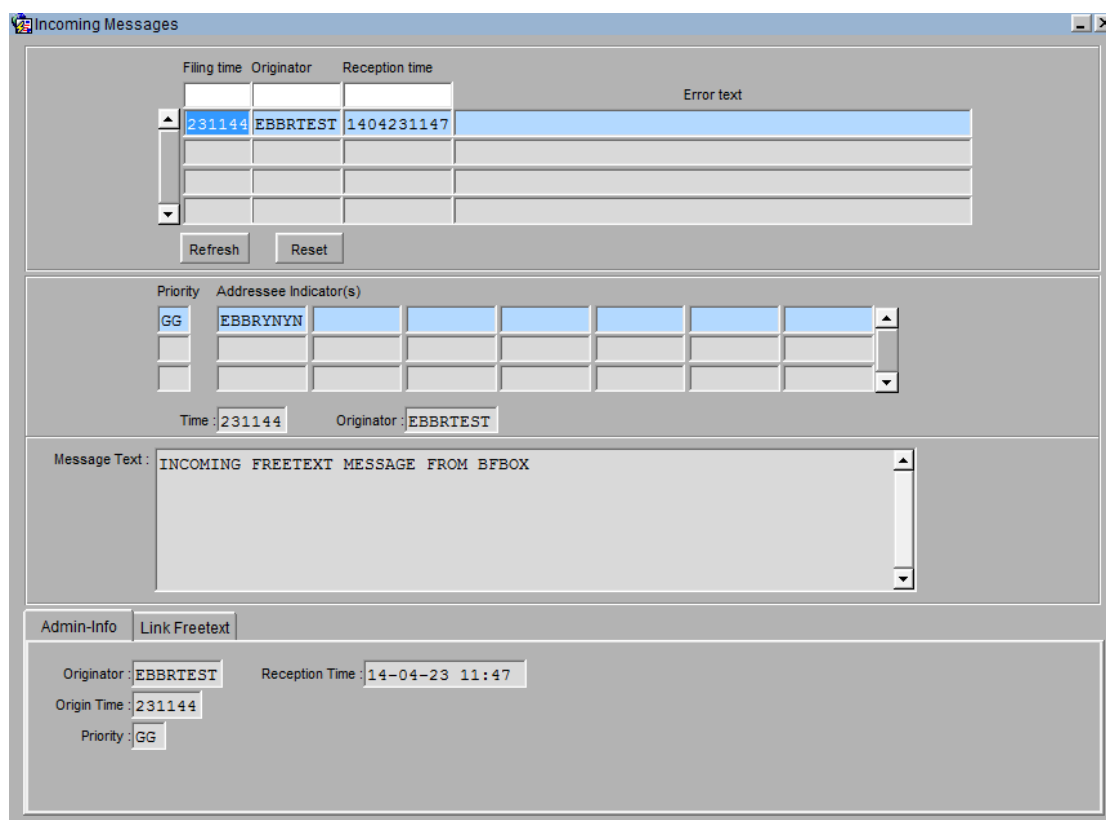
The screenshot shows the 'EAD: International NOTAM Operations - INO_dp_Alambrec' application window. The 'New Message' screen is active. On the left, there is a menu with 'Messages' highlighted. Below the menu is a 'Queue Monitor' section showing the status of various message types. The main form contains fields for 'Priority', 'Addressee Indicator(s)', 'Time' (230726), and 'Originator' (EBBRYNYN). There are three radio buttons for 'E-Mail', 'Fax', and 'SMS', with 'E-Mail' selected. A large text area for 'Message Text' is at the bottom. The status bar at the bottom indicates 'Record: 1/1'.

Queue Monitor	Count
Messages	
Incoming	3
Stored	0
Undelivered	7
NOTAM	
EST	26
Draft	0
PERM	15
NOTAM Proposal	
Unprocessed	8
SNOWTAM Proposal	
Unprocessed	1

Figure 4-13 INO DP – New Message

- **Incoming List**

This list is available only for organisation with BF connectivity, otherwise this menu item is disabled. The list contains all incoming messages. The user is able to Forward, Save as Template, Delete and Print the incoming messages. In addition the user can link an already saved NOTAM to an incoming message.



Filing time	Originator	Reception time	Error text
231144	EBBRTEST	1404231147	

Refresh Reset

Priority: GG Addressee Indicator(s): EBBRYNYN

Time: 231144 Originator: EBBRTEST

Message Text: INCOMING FREETEXT MESSAGE FROM BFBOX

Admin-Info Link Freetext

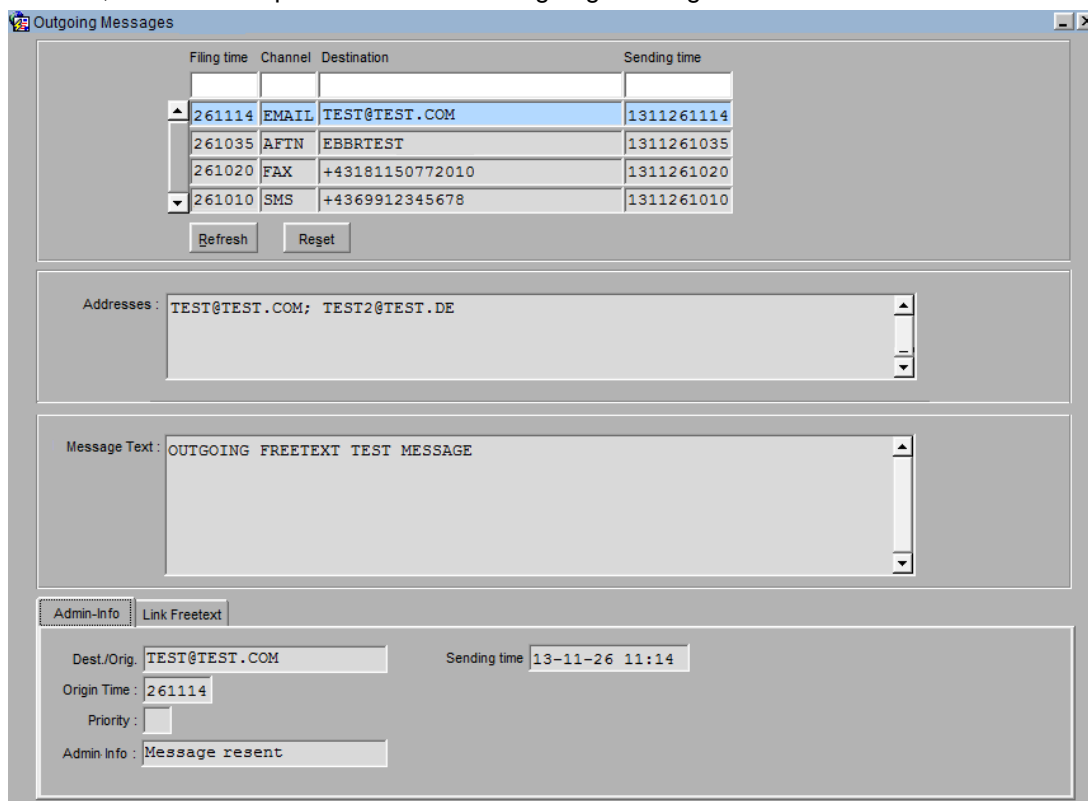
Originator: EBBRTEST Reception Time: 14-04-23 11:47

Origin Time: 231144 Priority: GG

Figure 4-14 INO DP – Incoming Messages

- Outgoing List**

This list contains all messages sent by the client to BF-Box (AFTN) / E-Mail / Fax / SMS. The list contains separate records per communication type. Messages sent to Fax or SMS are displayed as one record per Fax number / mobile number respectively. The user is able to Forward, Save as Template and Print the outgoing messages.



Filing time	Channel	Destination	Sending time
261114	EMAIL	TEST@TEST.COM	1311261114
261035	AFTN	EBBRTEST	1311261035
261020	FAX	+43181150772010	1311261020
261010	SMS	+4369912345678	1311261010

Refresh Reset

Addresses: TEST@TEST.COM; TEST2@TEST.DE

Message Text: OUTGOING FREETEXT TEST MESSAGE

Admin-Info Link Freetext

Dest./Orig.: TEST@TEST.COM Sending time: 13-11-26 11:14

Origin Time: 261114 Priority:

Admin-Info: Message resent

Figure 4-15 INO DP – Outgoing Messages

- **Undelivered List**

This list contains all messages that could not be sent (reported with ERROR status from the Common Distribution Module) to E-Mail / Fax / SMS. The list contains separate records per communication type. Messages sent to Fax or SMS are displayed as one record per Fax number / mobile number respectively.

The user is able to Resend, Forward, Save as Template, Print or Clear Status of the undelivered messages.

The undelivered message count will also be a new item available for Queue Counter in INO DP.

Filing time	Channel	Destination	Sending time	Error text
261114	EMAIL	TEST@TEST.COM	1311261114	E-Mail Gateway not reachable
261020	FAX	+43181150772010	1311261020	FAX Gateway not reachable

Refresh Reset

Addresses: TEST@TEST.COM; TEST2@TEST.DE

Message Text: OUTGOING FREETEXT TEST MESSAGE

Admin-Info

Dest./Orig. TEST@TEST.COM Sending time 13-11-26 11:14

Origin Time: 261114

Priority:

Figure 4-16 INO DP – Undelivered Messages

- **Template List**

This list contains all saved message templates. The user is able to Use, Delete or Print the templates.

Template Name	Save time
EST	0601120846
EST REV2	1106151357
ESTNTM REV	1005161636
EUEC RQN	0906021042

Refresh Reset

Priority: GG Addressee Indicator(s):

EBBRYNYN							

Use Delete

Time: 231144 Originator: EBBRTST

E-Mail: test@test.com; aro@test.com

Fax: +43181150772010; +43181150771951

SMS: +43664123456789

Message Text: FREETEXT MESSAGE TEST

Figure 4-17 INO DP – Template Messages

- **Stored List**

This list contains all incoming or outgoing messages that have been linked by the user organisation to a NOTAM. A dedicated tab pane shows the NOTAM(s) that are linked together with the selected message. The link can be removed (Unlink selected / Unlink all). The user is able to Forward, Save as Template or Print the stored messages.

Tp	Filing time	Channel	Destination	Sending time
O	261114	EMAIL	TEST@TEST.COM	1311261114
O	261035	AFTN	EBBRTST	1311261035
O	261020	FAX	+43181150772010	1311261020
O	261010	SMS	+4369912345678	1311261010

Refresh Reset

Addresses: TEST@TEST.COM; TEST2@TEST.DE

Message Text: OUTGOING FREETEXT TEST MESSAGE

Admin-Info Linked NOTAM

NOF	S	No	Yr	Tp	A)	B)	C)	Code	List
VECC	C	0285	11	N	VEXX	1002251146	PERM	FALT	S

Refresh Reset Unlink selected Unlink all

Figure 4-18 INO DP – Stored Messages

The following items will be configurable per organisation in the CI application:

1. The E-Mail distribution format (PDF or Text) is configurable per message type (NOTAM, SNOWTAM, ASHTAM, Freetext).
2. Message text content templates with dynamic variables.
3. E-mail subject templates with dynamic variables.
4. The maximum number of addresses per delivery
 - a. The value range is between 1 and 40 addresses
 - b. The default value is 20 addresses
5. The time system waits before the distribution is cancelled and marked erroneous
 - a. The value range is between 1 and 10 minutes
 - b. The default value is 3 minutes.
6. Message retention time, after which the messages are automatically removed from list and archived
 - a. Undelivered Messages (30 days by default)
 - b. Outgoing Messages (30 days by default)
7. The PDF output customisation can include the following per distribution media (E-Mail/FAX/SMS) and per request type (NOTAM/SNOWTAM/ASHTAM/FREETEXT):
 - a. ANSP Logo
 - b. Header information (e.g. phone number, unit name, email address)
 - c. Footer information (e.g. No of pages)

Impact on OUH: Operational User Handbook – Data Provider, chapter 2 and 9

Impact on user: Update of internal procedures to be considered: **Yes**

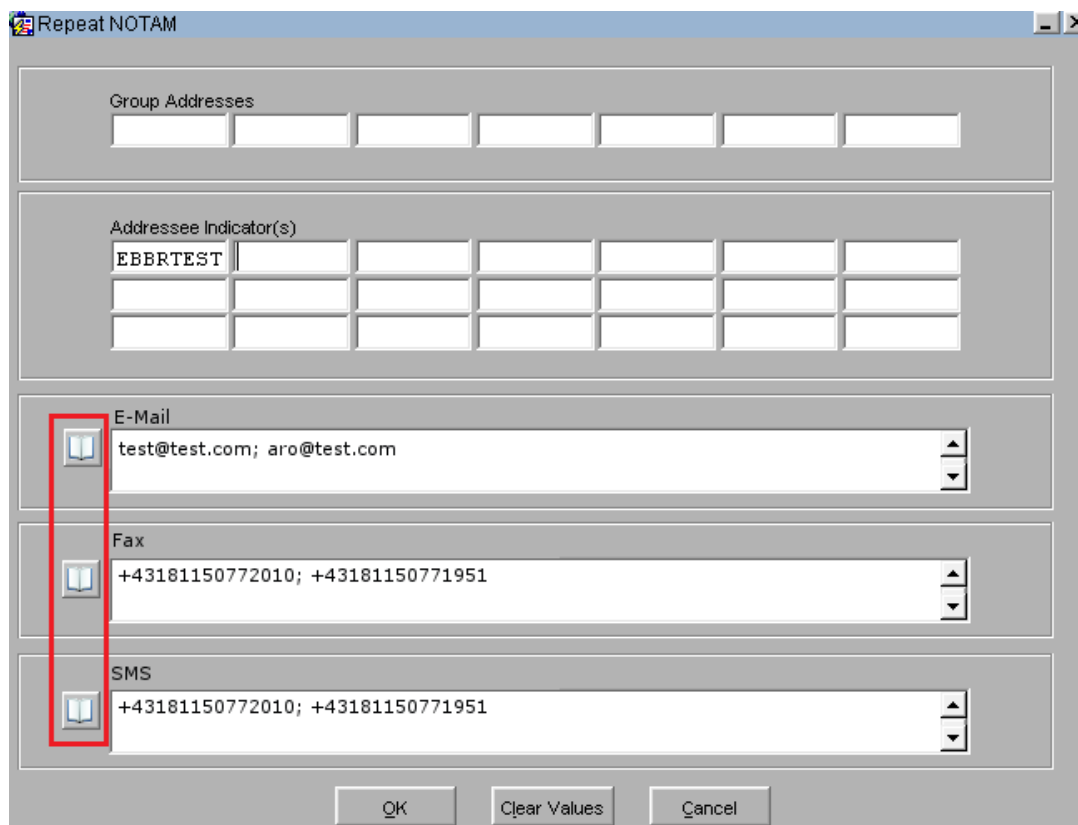
4.8 Address book (CHM-1377)

It will be possible to access the common address book component and search for a specific contact when working on certain screens in INO DP. After selecting the contact and clicking Apply, the details are taken to respective entry field that was used for opening the address book.

For more details on the Common Address Book see chapter 12.1

The screens that contain access to the address book are as follows:

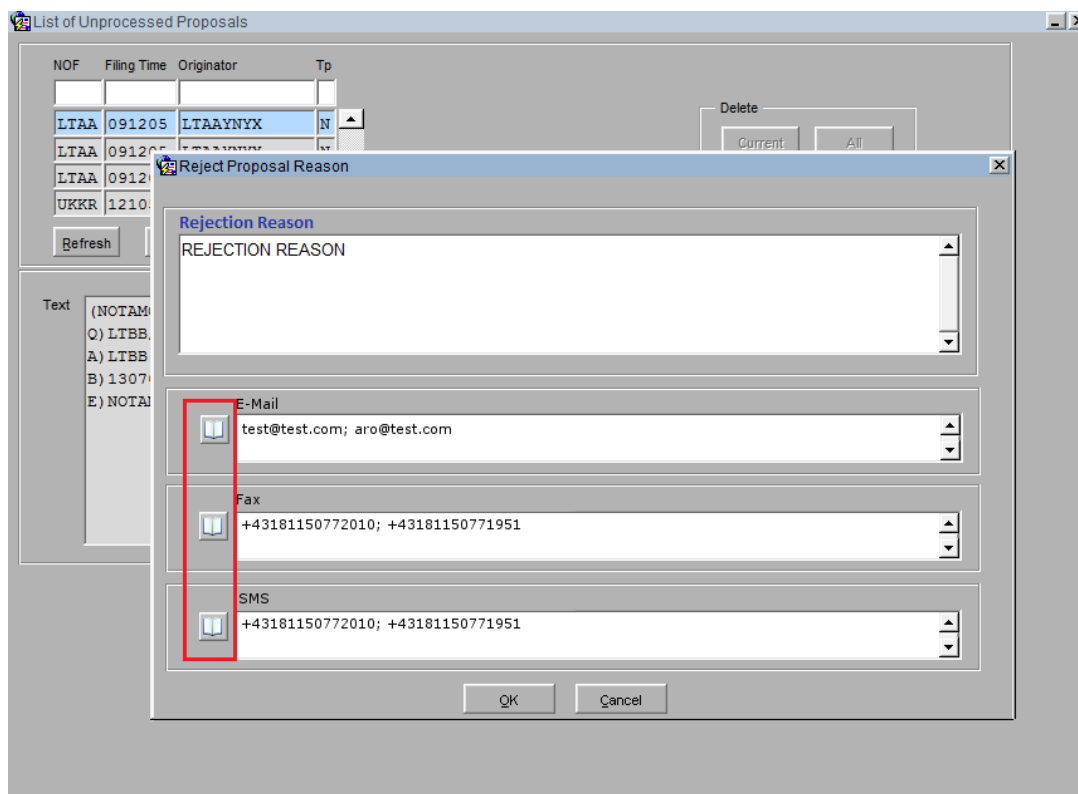
1. Repeat NOTAM / SNOWTAM / ASHTAM distribution



The 'Repeat NOTAM' dialog box contains several input fields. At the top is a 'Group Addresses' section with six empty text boxes. Below that is an 'Addressee Indicator(s)' section with a grid of seven text boxes, the first of which contains 'EBBRTST'. The bottom section contains three rows, each with a small icon in a box and a text field. The first row is labeled 'E-Mail' and contains 'test@test.com; aro@test.com'. The second row is labeled 'Fax' and contains '+43181150772010; +43181150771951'. The third row is labeled 'SMS' and contains '+43181150772010; +43181150771951'. At the bottom are 'OK', 'Clear Values', and 'Cancel' buttons. A red rectangle highlights the three rows with icons.

Figure 4-19 INO DP – Repeat NOTAM

2. Reject Proposal (NOTAM and SNOWTAM)



The 'List of Unprocessed Proposals' dialog box shows a table with columns 'NOF', 'Filing Time', 'Originator', and 'Tp'. The table contains several rows, with the first three highlighted in blue. A 'Reject Proposal Reason' sub-dialog box is open over the table. The sub-dialog has a 'Rejection Reason' text area containing 'REJECTION REASON'. Below this are three rows, each with a small icon in a box and a text field. The first row is labeled 'E-Mail' and contains 'test@test.com; aro@test.com'. The second row is labeled 'Fax' and contains '+43181150772010; +43181150771951'. The third row is labeled 'SMS' and contains '+43181150772010; +43181150771951'. At the bottom are 'OK' and 'Cancel' buttons. A red rectangle highlights the three rows with icons.

Figure 4-20 INO DP – Reject Proposal

3. Freertext message screens (New and Forward)

Forward Message

Priority: GG Addressee Indicator(s):

EBBRTST							

Time: 180805 Originator: EBBRYNYN

E-Mail: test@test.com; aro@test.com

Fax: +43181150772010; +43181150771951

SMS: +43664123456789

Original Text: FREETEXT MESSAGE TEST

Message Text: FORWARDING TEXT

OK Cancel

Figure 4-21 INO DP – Forward Message

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

4.9 Additional NOTAM validation checks (CHM-1647)

The following additional validation checks are introduced for NOTAM handling in INO DP:

1. In case NOTAM scope is A, E, AE and Item F and G is filled, an error is raised
Creation: Error Processing: Error
2. In case system NSC for certain Q-code contains scope W, the only scope value allowed in NOTAM with that Q-code is W or AW
Creation: Error Processing: Error
3. In case system NSC for certain Q-code contains scope A, the only scope value allowed in NOTAM with that Q-code is A
Creation: Error Processing: Warning

4. In case system NSC for certain Q-code contains scope AE, the only scope allowed in NOTAM with that Q-code is A, E or AE
Creation: Error Processing: Error
5. Value K is only allowed for Traffic/Purpose/Scope when Q-code is QKKKK
Creation: Error Processing: Error
6. Existing rule checking if the NOTAM to be replaced/cancelled is already invalid is enhanced: the check returns 2 possible messages (one of them indicating the reference):
 - a) NOTAM to be replaced/cancelled is expired
 - b) NOTAM to be replaced/cancelled is already replaced cancelled by [NOF/Series/Number/Year]
Creation: Error Processing: Warning ESI: Error
7. In case NOTAM contains EST in Item C, any entry in Item D) is not allowed (except when "DAILY" is used)
Creation: Error Processing: Error ESI: Error

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

4.10 Automated reporting via Workflow Management Tool (CHM-2406)

New reporting capabilities are introduced for activities related to INO Data Provider. The statistical data will be available per organization. All the reports will be scheduled and managed by EAD staff by using newly introduced EAD Work Flow Management Tool.

The request for receiving a dedicated statistic report shall be submitted via EAD Service Desk. The reports can be delivered (depending on request) either once-only or automatically by schedule via e-mail or by storing them on IFS.

The following reports will be available with R9:

INODP Activity Counters – NOTAM created/processed

This report contains on an hourly basis the number of NOTAM created / processed. In order to schedule the report the following parameters must be defined:

- Activity Date
- NOF
- Series
- NOTAM Type
- Organisation Name

INODP Activity Counters – SNOWTAM created/processed

This report contains on an hourly basis the number of SNOWTAM created / processed. In order to schedule the report the following parameters must be defined:

- Aerodrome
- Activity Date
- Organisation Name

INODP Activity Counters – Messages sent

This report contains on an hourly basis number of messages sent via the Messages screen. The counts are provided per Channel (BF-Box / E-Mail / SMS / Fax). In order to schedule the report the following parameters must be defined:

- Channel (BF-Box AFTN / E-Mail / SMS / Fax)
- Originator (AFTN address)
- Address (AFTN address / E-Mail address / SMS number / Fax number)
- Activity date
- Organisation name

INODP Activity Counters – Messages received

This report contains on an hourly basis number of messages received from AFTN (via BF-box). In order to schedule the report the following parameters must be defined:

- Activity date
- Organisation name

INODP Activity Counters – Organisation

This report contains on all available activities of the users of the selected organisation on the specific day:

- NOTAM created
- NOTAM replaced
- NOTAM cancelled
- SNOWTAM created
- Messages sent to AFTN (via BF-Box)
- Messages sent to SMS
- Messages sent to Fax
- Messages sent to E-Mail
- Messages received from AFTN (via BF-Box)

In order to schedule the report the following parameters must be defined:

- Activity date
- Organisation name

Impact on OUH: Operational User Handbook – Data Provider, chapter 9

Impact on user: Update of internal procedures to be considered: **Yes**

4.11 Partitioning of NOTAM history (CHM-2418)

The content of the NOTAM history is continuously growing with negative affect on the system performance and capacity. For this reason storage of historic data in INO DP is changed so that all older data will be automatically archived. The archiving will be performed once at the beginning of each calendar year. As a result at any point in time the users can access the following information via NOTAM History screen:

- All valid NOTAM (including PERM, EST)
- All invalid NOTAM that got invalid during the current year
- All invalid NOTAM that got invalid during the previous (X) number of years. The (X) is a dynamic parameter and will be set to 1 year.

Any data older than above, can still be retrieved from the archive by EAD ITP. A request via Service Desk shall be submitted.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

4.12 Automatic NOTAM checklist proposal generation (CHM-2488)

An automatic checklist creation capability is introduced. In order to set it up, the users can access Schedule Tasks screen via Operating menu item on the INO DP application tree. The following information has to be provided:

- Task Type – currently on “auto checklist” is available
- Job description – free text
- NOF – user can select only the NOF he/she belongs to
- Series – NOTAM series
- Schedule
 - Start date, time and recurrence pattern
 - End date, time or indefinite

The NOTAM checklist is prepared automatically and stored in the list of Unprocessed NOTAM proposals for the selected NOF for further editing and distribution.

EAD: International NOTAM Operations

File Edit View Help Window

INO Menu

- Messages
- Nof
- Basic Data Display
- Basic Data Maint.
- Admin. Data
- Operating
- Control
- Data User Config
- Scheduled Tasks**

Queue Monitor

AFTN (Q)	12
NOTAM (Q)	18
NOTAM Proposal	102
SNOWTAM (Q)	5
SNOWTAM Prop.	1
ASHTAM (Q)	1

Task

Type: auto checklist

Description: automatic checklist creation

Job Description: Automatic Checklist

Parameter Name	Value	Description
NOF	LFFA	series
SERIES	A	

Schedule

Start Date: 20140718 Start Time: 1307 Recurrence Pattern: 1 / Months

End Date: End Time: Indefinite ☒

if checked the job has no end-date (gets scheduled forever)

Record: 1/1

Figure 4-22 INO Scheduler

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

5 INO Data User

The following INO Data User changes are deployed with **Release 9**:

- | | |
|----------------------------|---|
| • Change Proposal CHM-221 | Integration of multiple instances – Step 2 |
| • Change Proposal CHM-934 | Statistic Reports |
| • Change Proposal CHM-969 | New customisation option via Corporate Identity |
| • Change Proposal CHM-1357 | NAT Tracks for FPL addressing and PIB production |
| • Change Proposal CHM-1369 | Pop-up “Special NOTAM available...” |
| • Change Proposal CHM-1375 | PIB – Schedule Management |
| • Change Proposal CHM-1376 | PIB – History Management |
| • Change Proposal CHM-1378 | Sending ad-hoc PIB without presentation on screen |
| • Change Proposal CHM-1379 | PIB – order of En-route information |
| • Change Proposal CHM-1380 | Present all SDO validation results in once |
| • Change Proposal CHM-1382 | PIB filter combinations |
| • Change Proposal CHM-1448 | Address Book |
| • Change Proposal CHM-1449 | Distribution to Mail, Fax and SMS |
| • Change Proposal CHM-1759 | Distribution of PIBs via Briefing Facility Box |
| • Change Proposal CHM-2287 | Internet Briefing interface extension |
| • Change Proposal CHM-2306 | Route and Briefing visualization |
| • Change Proposal CHM-2491 | NOTAM Ticker and BF available via SSL |
| | |
| • Change Proposal CHM-235 | BF: Handling of incoming SS messages |
| | |
| • Change Proposal CHM-344 | BF: PIB Integration |
| • Change Proposal CHM-738 | BF: Automatic FPL replace procedure |
| • Change Proposal CHM-878 | BF: Separate email for PIB and BF messages |
| • Change Proposal CHM-1147 | BF: Message priority |
| • Change Proposal CHM-1341 | BF: Access to Network Operations operational applications |
| • Change Proposal CHM-1350 | BF: Improvement of automatic message forwarding |
| • Change Proposal CHM-1633 | BF: Free Text templates |
| • Change Proposal CHM-2327 | BF: Enable short messages in FPL context for ARO operator |
| • Change Proposal CHM-2410 | BF: BF-BOX communication timeout |
| • Change Proposal CHM-2419 | BF: BF-BOX remote monitoring and service |

5.1 Integration of multiple instances – Step 2 (CHM-221)

This change introduces a decoupling of PIB and FPL related functionalities on the server side, improving the overall availability.

1. In case FPL application instance on server side stops working, the user is informed and can continue using following PIB and Reporting related functions:
 - Aerodrome PIB
 - Area PIB
 - Route PIB

- Narrow Route PIB
- NOTAM List
- Admin PIB
- Single NOTAM Retrieval
- Profile/Schedule Management
- Route Management
- Validation Report
- Message Window
- 2. In case PIB application instance on server side stops working, the user is informed and can continue using following FPL related functions:
 - New Flight Plan
 - My Flight Plans
 - Client/Address Management
 - Route Proposal
 - Sending/receiving AFTN messages via BF-Box

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.2 Statistic Reports (CHM-934)

New reporting capabilities are introduced for activities related to FPL and PIB. The statistical data will be available per organization. All the reports will be scheduled and managed by EAD staff by using newly introduced EAD Work Flow Management Tool.

The request for receiving a dedicated statistic report shall be submitted via EAD Service Desk. The reports can be delivered (depending on request) either once-only or automatically by schedule via e-mail or by storing them on IFS.

The following reports will be available with R9:

- INODU Activity report – PIBs hourly
- INODU Activity report – FPLs hourly
- INODU Activity report – ATS messages incoming hourly
- INODU Activity report – ATS messages outgoing hourly
- INODU Activity report – ATFCM messages forwarded hourly
- INODU Activity report – ATFCM messages outgoing hourly
- INODU Activity report – ATFCM messages incoming hourly
- INODU Performance report – Incoming messages processing hourly
- INODU Performance report – Incoming Internet proposals processing hourly
- INODU Performance report – Important messages for FPLs processing hourly

- INODU Activity report- PIBs daily
- INODU Activity report- FPLs daily
- INODU Activity report- ATS messages incoming daily
- INODU Activity report- ATS messages outgoing daily
- INODU Activity report- ATFCM messages forwarded daily
- INODU Activity report- ATFCM messages outgoing daily
- INODU Activity report- ATFCM messages incoming daily
- INODU Performance report – Incoming messages processing daily

INODU Performance report – Incoming Internet proposals processing daily
INODU Performance report – Important messages for FPLs processing daily

INODU Activity report- PIBs weekly
INODU Activity report- FPLs weekly
INODU Activity report- ATS messages incoming weekly
NODU Activity report- ATS messages outgoing weekly
INODU Activity report- ATFCM messages forwarded weekly
INODU Activity report- ATFCM messages outgoing weekly
INODU Activity report- ATFCM messages incoming weekly
INODU Performance report – Incoming messages processing weekly
INODU Performance report – Incoming Internet proposals processing weekly
INODU Performance report – Important messages for FPLs processing weekly

INODU Activity report- PIBs monthly
INODU Activity report- FPLs monthly
INODU Activity report- ATS messages incoming monthly
NODU Activity report- ATS messages outgoing monthly
INODU Activity report- ATFCM messages forwarded monthly
INODU Activity report- ATFCM messages outgoing monthly
INODU Activity report- ATFCM messages incoming monthly
INODU Performance report – Incoming messages processing monthly
INODU Performance report – Incoming Internet proposals processing monthly
INODU Performance report – Important messages for FPLs processing monthly

Impact on OUH: Operational User Handbook – Data User, chapter 7

Impact on user: Update of internal procedures to be considered: **Yes**

5.3 New customisation option via Corporate Identity (CHM-969)

The following configuration options are introduced in Corporate Identity application allowing organisations to customise their PIBs:

PIB Disclaimer for METEO section

Each organisation can select either a default disclaimer or a custom text that is used in all the PIBs that contain METEO information.

PIB disclaimer for METEO section

Description: Defines the text of disclaimer for PIB output, which is displayed after a METEO section. If no customized value is defined for this property, the bellow default disclaimer text is used.

Validation: The value contains a text with alpha-numeric characters containing maximum 500 characters.

Default value:	DISCLAIMER: The included METEOROLOGICAL DATA (OPMET reports: METAR/SPECI, TAF, SIGMET/AIRMET) shall be used for pre-flight information purposes only.
Customized value:	

Figure 5-23 Corporate Identity – PIB Disclaimer for METEO

FPL notifications e-mail subject

Each organization can configure the subject line of email notifications for BF messages. The default subject line contains the following FPL information (variables): ARCID-ADEP-EOBT-ADES-DOF. Customised subject line can choose combination of any of those 5 variables.

FPL notifications e-mail subject

Description: Defines the subject of an e-mail message, which is distributed as a notification for a flight plan. It may include dynamic values from concrete flight plan information and shall support the following variables: <arcid> extracts the aircraft ID from an FPL, <adep> extracts the departure AD of an FPL, <ades> extracts the destination AD of an FPL, <eobt> extracts the EOBT of an FPL, <dof> Extracts the DOF of an FPL. If no customized value is defined for this property, the below default subject line template is used.

Validation: The value is text containing maximum 200 characters.

Default value:	Notification for FPL <arcid>-<adep>-<eobt>-<ades>-<dof>
Customized value:	

Figure 5-24 Corporate Identity – FPL notification e-mail subject

PIB distribution e-mail subject

Each organization can configure the subject line of the emails distributing a PIB (**not based on FPL**). The default subject line contains the following information (variables): <plib_type> ID: <plib_id>. Customised subject line can choose combination of any of the below variables:

- <plib_id> Unique PIB identification number
- <plib_type> PIB type (Aerodrome, Area, Rout or Narrow Route)
- <plib_profile_name> Name of the PIB Profile
- <plib_profile_subject> Saved subject line of the PIB Profile
- <ad list> List of aerodromes contained in PIB
- <fir_list> List of FIRs contained in PIB

PIB distribution e-mail subject

Description: Defines the subject of an e-mail message with PIB distribution. It may include dynamic values from concrete PIB information and it shall support the following variables: <plib_id> extracts the unique PIB identification number, <plib_type> extracts the PIB type (Aerodrome, Area, Rout or Narrow Route), <plib_profile_name> extracts the name of the profile that the PIB is based on, <plib_profile_subject> extracts the subject line of the profile that the PIB is based on, <ad list> extracts the list of aerodromes (separated by commas) that the PIB is concerned with, <fir_list> extracts the list of FIRs (separated by commas) that the PIB is concerned with

Validation: The value is text containing maximum 200 characters.

Default value:	<plib_type> ID: <plib_id>
Customized value:	

Figure 5-25 Corporate Identity – PIB distribution e-mail subject

PIB (based on FPL) distribution e-mail subject

Each organization can configure the subject line of the emails distributing a PIB (**based on FPL**). The default subject line contains the following information (variables): <plib_type> for flight <arcid><adep><eobt><ades>-<dof>. Customised subject line can choose combination of any of the below variables:

- <plib_id> Unique PIB identification number
- <plib_type> PIB type (Aerodrome, Area, Rout or Narrow Route)
- <plib_profile_name> Name of the PIB Profile
- <plib_profile_subject> Saved subject line of the PIB Profile
- <ad list> List of aerodromes contained in PIB
- <fir_list> List of FIRs contained in PIB

- ARCID
- ADEP
- EOBT
- ADES
- DOF

PIB (based on FPL) distribution e-mail subject

Description: Defines the subject of an e-mail message with PIB distribution. This concerns only PIBs based on a flight plan. It may include dynamic values from concrete PIB of related flight plan information and it shall support the following variables: <pi_b_id> extracts the unique PIB identification number, <pi_b_type> extracts the PIB type (Aerodrome, Area, Rout or Narrow Route), <pi_b_profile_name> extracts the name of the profile that the PIB is based on, <pi_b_profile_subject> extracts the subject line of the profile that the PIB is based on, <ad list> extracts the list of aerodromes (separated by commas) that the PIB is concerned with, <fir_list> extracts the list of FIRs (separated by commas) that the PIB is concerned with, <arcid> extracts the aircraft ID from an FPL, <adep> extracts the departure AD of an FPL, <ades> extracts the destination AD of an FPL, <eobt> extracts the EOBT of an FPL, <dof> Extracts the DOF of an FPL

Validation: The value is text containing maximum 200 characters.

Default value:

Customized value:

Figure 5-26 Corporate Identity – PIB (based on FPL) distribution e-mail subject

Note: a dedicated document for the CSO is in preparation to explain the dependencies of the applications on the Common Services.

Impact on OUH: Operational User Handbook – Data User, chapter 2

Impact on user: Update of internal procedures to be considered: **Yes**

5.4 NAT Tracks for FPL addressing and PIB production (CHM-1357)

The use of NAT Tracks in PIB and FPL route definition is enhanced with the following principles:

- The term NATx can be used in route definition several times, together with valid significant points or coordinates. DCT cannot be used for connecting NATx.
- During the route validation the word NAT is interpreted as route portion (not DCT)
- During the route validation the word NAT followed by more than 2 letter (e.g. NAT52) is interpreted as route portion (not DCT)
- During the route validation the word NAT followed by single letter (e.g. NATB) is interpreted as DCT
- Dynamic information of availability in NAT message shall not be considered for route validation
- Flight level restrictions in NAT messages shall not be considered for route validation

A different buffer for the Narrow Route strip during the route portion flying over the Atlantic is used for the automatic addressing purpose. The value of this buffer is configurable per organization via Corporate Identity application. This route buffer is used whereby internally DCT is used instead NATx. Within the route definition. The default value is 60 NM (complete width). FIRs detected along a route with such extended/different buffer over the Atlantic shall be used for automatic addressing calculation and for PIB production according to the requirement.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.5 Pop-up “Special NOTAM available...” (CHM-1369)

With this change the supra-regional NOTAM will be automatically included in PIBs which are generated based on FPLs (without any pop-up dialog for confirmation). This functionality is applicable to:

- PIBs generated from the FPL List context menu (Generate Full PIB, Generate Update on Full PIB, Generate Update on Update PIB)
- Dynamic PIB Generation by using the “before EOBT” check box on the Supplementary Tab of the FPL dialog.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.6 PIB – Schedule Management (CHM-1375)

This change introduces a capability to search among future active scheduled PIBs executions or disabled schedules. A new tab named “PIB List” that provides different search capabilities. Per every record (row) found the following information (columns) is provided:

- Time of planned distribution (empty when ‘Inactive’ is selected)
- Name of the schedule
- Type of the schedule
- Type of the PIB (Ad, Area, Route, Narrow Route)
- FPL: ARCID-ADEP-EOBT-ADES
- Distribution: media (phone numbers/e-mails) where the PIB has been distributed

Profile / Schedule Manager ?

Profile Overview Profile / Schedule Schedule / Profile PIBs List

Filter

Group <All> ARCID EOBID From: 21 - MAR - 2014 09 : 00 UTC
Schedule Type <All> PIB Type <All> To: 22 - MAR - 2014 09 : 00 UTC
☒ Active ☐ Inactive ☐ FPL related only Distribution Find

Aerodromes/Heliports
Identifier: + - Find

ID	AD Name	Type
----	---------	------

Items: 0/75

FIRs
ICAO: + - Find

ICAO	Name
------	------

Items: 0/75

Date/Time	Name	Schedule Type	PIB type	FPL	Distribution
-----------	------	---------------	----------	-----	--------------

0 schedules found

Groups Suspend Profile Edit

Clear

Help F1

Figure 5-27 PIB List

In addition, Group Management is introduced for PIB Profiles. Different profiles can belong to a single originator or source (e.g. one company). It is possible to group several PIB profiles to one or several groups, allowing easier access and management of those profiles. This is optional.

BF_SUPERVISORS and ADMINISTRATORS are provided edit access to the Group Management screen. BF_COORDINATOR have only read-only access. The deletion of Groups that have profiles associated is not allowed.

The screenshot displays the 'Profile / Schedule Manager' application. A 'Group Management' dialog box is open, showing a list of groups: New1, New2, Test12, and Test7. The 'Test7' group is selected. Below the list, there are buttons for 'Delete', 'Update', 'Save', 'Help', 'Accept', and 'Close'. The 'Save As' section shows the group name 'Test7'. In the background, the main interface has tabs for 'Profile Overview', 'Profile / Schedule', 'Schedule / Profile', and 'PIBs List'. The 'PIBs List' tab is active, showing a filter section with fields for Group, ARCID, EOBD, From, To, and UTC. The 'Groups' button at the bottom of the main interface is highlighted with a red box.

Figure 5-28 PIB – Group Management

Impact on OUH: Operational User Handbook – Data User, chapter 7

Impact on user: Update of internal procedures to be considered: **Yes**

5.7 PIB – History Management (CHM-1376)

The existing PIB History Management is enhanced with the following items:

- History Management is accessible via new menu item in the application tree
- All entries are stored in History for 95 days
- Items recorded in History are:
 - All PIBs (Aerodrome PIB, Area PIB, Route PIB, Narrow Route PIB) created ad-hoc from Data User HMI either via:
 - PIB application (Generate button)
 - FPL List context menu. (Full PIB, Update PIB, Update on updated PIB)
 - Immediate PIB distribution to various media (email, fax, BF-Box) either via:
 - The 'Envelope' button on the generated PIB in HTML form

- PIB application ('Distribute' button)
- Create PIB window executed from the FPL form ('Distribute' button)
- Scheduled PIB distribution either via:
 - PIB profile and schedule
 - Narrow Route PIB distributed "before EOBT" from BF
- INO DU reports generated for on-screen viewing and distributed via the 'Envelope' button:
 - NOTAM List
 - Admin PIB
 - SNR (Single NOTAM Retrieval)

Several filtering and search options are provided. The From and To search parameter is applied to creation time of the PIB or Report. After listing the search results, the user is able to select any single row and perform one of the following actions:

- Open
- Distribute
- Generate Full
- Generate Update

Figure 5-29 PIBs/Reports History

A new icon is introduced in Data User status bar that indicates problems with the distribution of PIBs/Reports. It displays a number of undistributed PIB/Report messages during the last five days. Clicking on the icon opens the PIB/Report History with the distribution filter set to the 'Failed Distribution' option.

The User can then right click on the failed item and either Re-send or Clear Status.

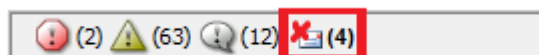


Figure 5-30 Data User Status Bar

Impact on OUH: Operational User Handbook – Data User, chapter 7

Impact on user: Update of internal procedures to be considered: **Yes**

5.8 Sending ad-hoc PIB without presentation on screen (CHM-1378)

In addition to ad-hoc generation (display) and sending of the PIB after that a new option is introduced allowing distribution of the PIB without displaying it first. The user must first fill in the recipient/delivery details in the Distribution screen and simply click the distribute button.

This action can be used for newly created PIBs and also for already existing PIBs after opening it from a saved profile.

Figure 5-31 PIB – Distribution

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.9 PIB – order of En-route information (CHM-1379)

A new option of PIB layout is introduced in which case the NAV WARNINGS section is not displayed in the PIB and all the NOTAM with scope “W” are merged into the EN-ROUTE section (positioned and sorted among FIRs as any other ENR NOTAM).

This option is available both for Route and Narrow Route PIB. The option is configurable per organisation in Corporate Identity application with simple “Yes/No value” – applied to all Route and Narrow Route PIBs created by that organisation. Default value is “No”.

Impact on OUH: Operational User Handbook – Data User, chapter 2

Impact on user: Update of internal procedures to be considered: **Yes**

5.10 Present all SDO validation results in once (CHM-1380)

When an SDO validation of a route is finished and discrepancies are identified, the results are presented in one single dialog called “SDO Validation Results”. In the dialog all the errors are listed at once (instead of current separate messages). From that dialog, the user is able to solve all the listed ambiguities.

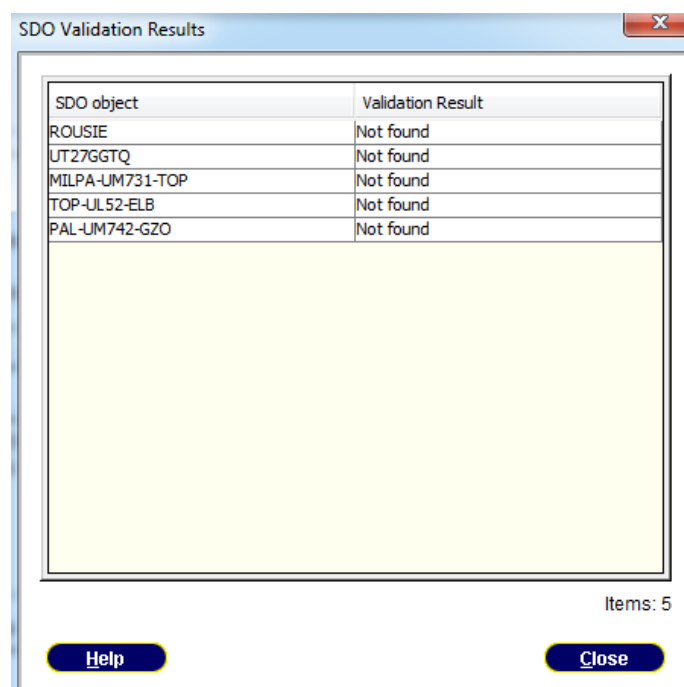


Figure 5-32 Data User – SDO Validation Results

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.11 PIB filter combinations (CHM-1382)

The Q-code filtering in PIB Filter 2 screen is enhanced as follows:

- “Only to be included” – **no change**, PIB contains only NOTAM matching the selected Q-Codes
- “All minus” – **no change**, PIB contains all NOTAM except the ones matching the selected Q-Codes
- **“All Plus” – newly introduced option**
PIB contains all NOTAM matching the following query: “Default purpose/scope” + selected Q-Codes. The “Default purpose/scope” combinations that is used for this retrieval are as follows:

Aerodrome PIB:	Purpose B	Scope A
Area PIB:	Purpose B	Scope E, W
Route PIB:	Purpose B	Scope A, E, W
Narrow Route PIB:	Purpose B	Scope A, E, W

The screenshot shows the 'Filter 2' tab selected in the top navigation bar. The main interface is divided into three sections:

- Qualifier:** Contains two columns of checkboxes. The 'Scope' column has checkboxes for A (checked), E, and W. The 'Purpose' column has checkboxes for N, B, O, and M.
- Q-Code:** This section is active. It includes a 'Code List' area, a radio button for 'Only to be included' (which is selected), and buttons for 'Add' and 'Remove'. To the right, there are input fields for '2nd and 3rd Letter' (showing '?? - Any') and '4th and 5th Letter' (showing '?? - Any'). At the bottom of this section are 'Default' and 'Profile' buttons.
- NOTAM Text (Item E):** Contains a radio button for 'To Be Included' (selected) and another for 'All Except'. Below these are 'Keyword' input fields with '+' and '-' buttons.

Figure 5-33 PIB – Filter 2

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

5.12 Address Book (CHM-1448)

In PIB and BF screens it is possible to access the common address book component and search for a specific contact. After selecting the contact and clicking Apply, the details are taken to respective entry field that was used for opening the address book.

For more details on the Common Address Book see chapter 12.1.

Distribute ?

The content will be sent to the specified contacts.

E-mail

SMS

Fax

Send

HELP

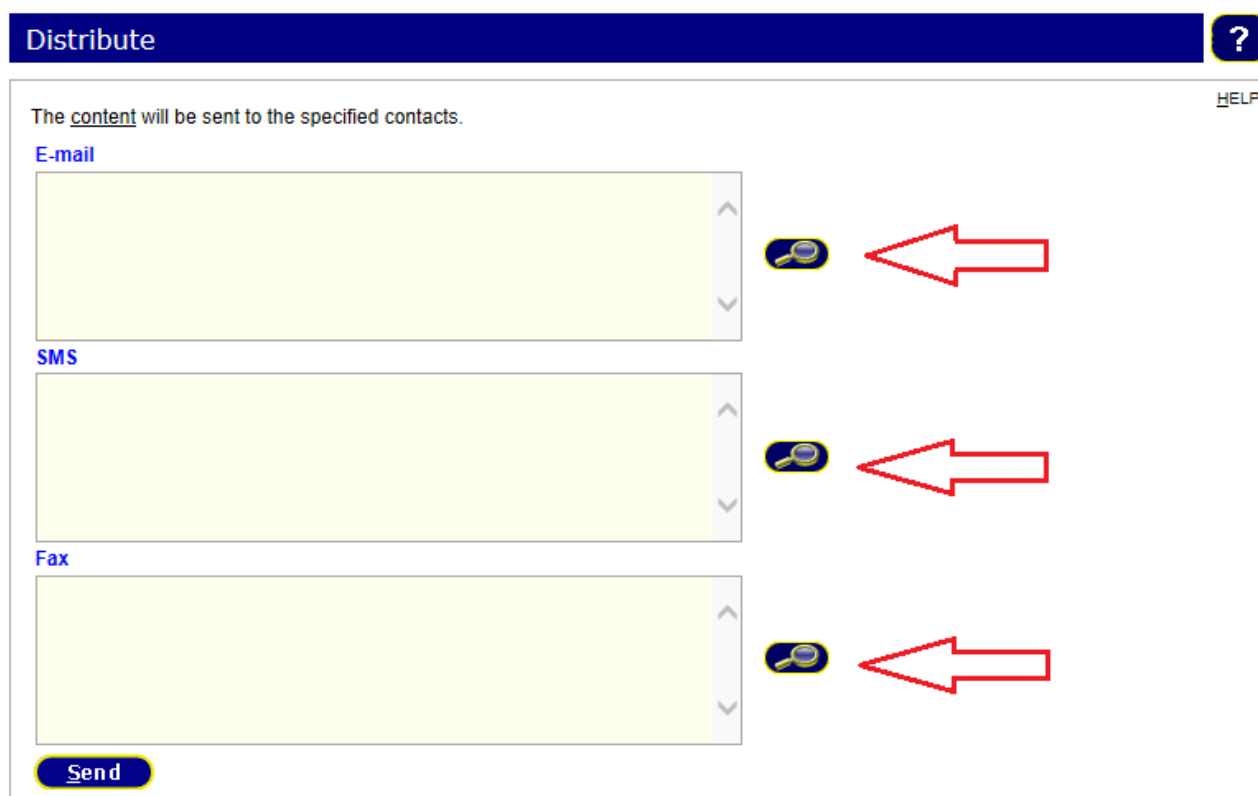


Figure 5-34 PIB – Distribute

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.13 Distribution to Mail, Fax and SMS (CHM-1449)

Distribution capabilities in Data User are extended by introducing new options:

8. Distribution of PIB, FPL and FAM via Fax
9. Distribution of PIB creation notification via SMS

In order to use FAX and SMS functionality the following steps need to be performed per organisation (started and traced in in EAD SD):

3. Introduce fax and SMS gateway on client side. Respective EAD Installation Plan shall be updated.
4. Data change by ITP for enabling CI properties for the organisation:
cs.distributioncomponent.faxgateway.available
cs.distributioncomponent.msggateway.available
5. CI properties enabled by CSO:
cs.distributioncomponent.faxgateway.available
cs.distributioncomponent.msggateway.available

Both the ad-hoc and scheduled sending of a PIB is extended to include also FAX and SMS. For deliver via fax the system creates the PIB in PDF format and sends it to a FAX gateway as an attachment of the e-mail. It is possible to access Address Book component through the search button and include contact details directly from there.

Distribute ?

The content will be sent to the specified contacts. HELP

E-mail

SMS

Fax

Send

Figure 5-35 PIB – Distribute

For scheduled delivery, the checkbox needs to be selected in order to have delivery to this media. Distribution information can be stored in a profile without activating the checkbox.

Filter Filter 2 Layout **Distribution** Scheduling PIBs

PIBHeader/Subject:

Distribution

<input type="checkbox"/>	E-mail	
<input type="checkbox"/>	SMS	
<input type="checkbox"/>	Fax	
<input type="checkbox"/>	PIB Box	
<input type="checkbox"/>	BF Box	

Edit

Figure 5-36 PIB – Distribution

Ad-hoc distribution of FPL or follow-up message is possible via existing context menu on BF Message List named 'Print/Send'. The contact fields from Supplementary section of the FPL will be automatically pre-filled in the distribution dialog.

Message List

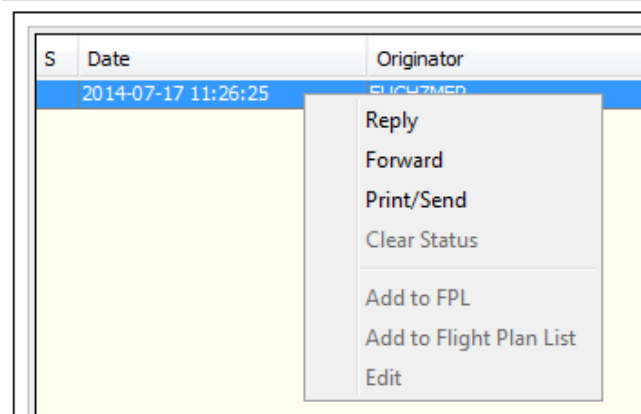


Figure 5-37 BF – Print/Send

Briefing Facility Messages



FF UKBBZPZX
171125 EUCZMFP
(CNL-TAY151J-LJLJ2000-LOWW)

Figure 5-38 BF – Send

Distribute
?

The content will be sent to the specified contacts. HELP

E-mail

^
v

SMS

^
v

Fax

^
v

Send

Figure 5-39 BF – Distribute

The syntax on all fields is validated and user can add more than one entry by using one of the following separators:

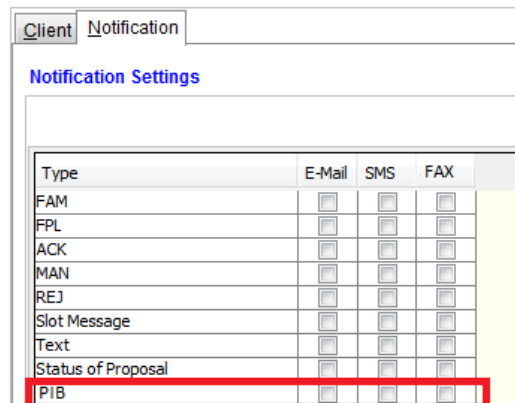
- Line feed (Enter)
- Comma
- Semicolon

The notification settings in BF for receiving update information about a flight plan is extended to contain also option 'PIB'. This allows to determine which media shall be used for PIB activated by FPL EOBT time. When

user selects the 'Distribute PIB before EOBT' checkbox, 'E-mail' is automatically selected in the 'PIB' row of the notification settings.

The other media in the 'PIB' row of the notification settings (SMS and Fax) are never selected automatically and must be selected manually.

When the 'SAVE', 'SEND' or 'VALIDATE' buttons are pressed on the Flight Plan form, the notification settings are crosschecked with the contact fields and users are prevented from Saving or Sending a flight plan if any of the distribution media they've selected have empty contact field values.



Type	E-Mail	SMS	FAX
FAM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FPL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ACK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MAN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
REJ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Slot Message	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Text	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Status of Proposal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PIB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Figure 5-40 BF – Notification Settings

Distributing Freetext messages in BF is extended to include also E-mail, Fax or SMS. The same applies to Forward, Re-send, Reply dialogs (valid for all messages).

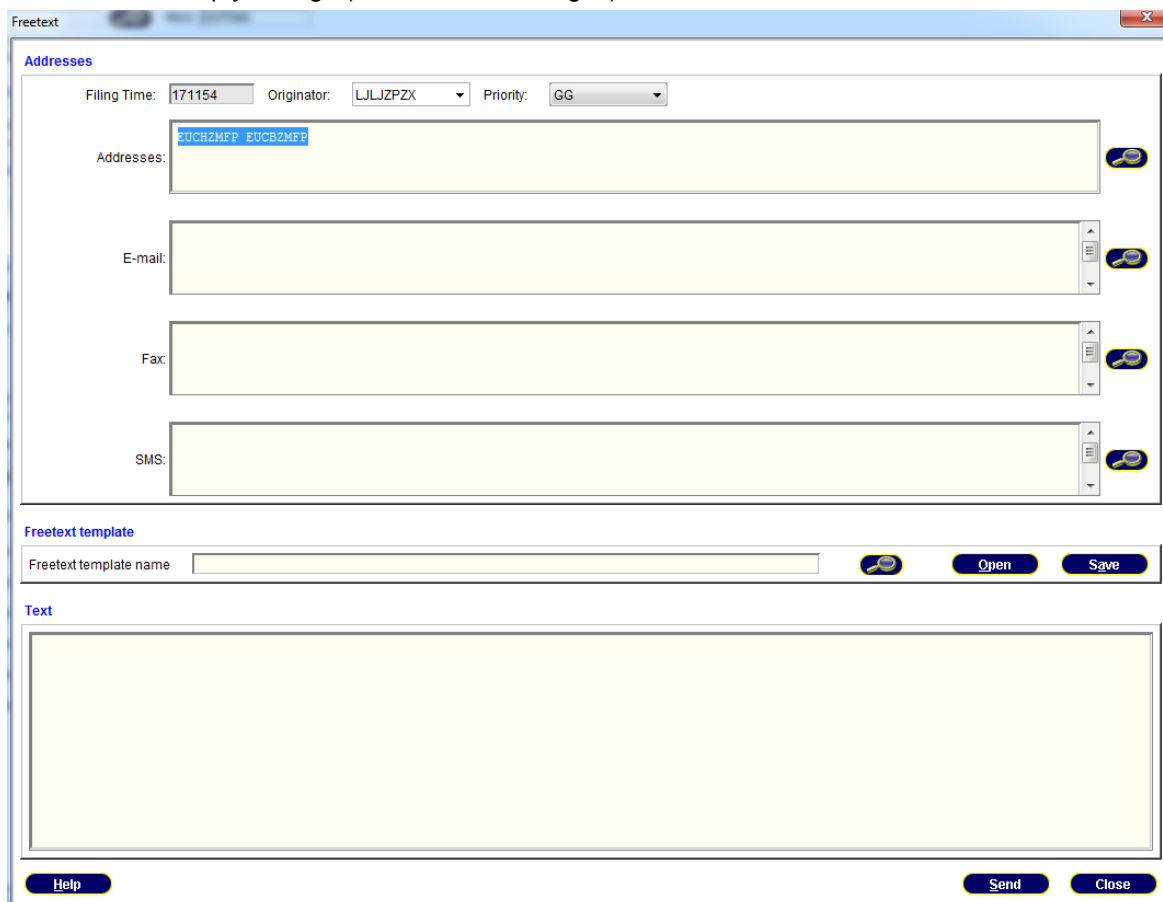


Figure 5-41 BF – Freetext

FPL notification messages (including PIB notification message) distributed via Fax, E-mail and/or SMS are displayed among other notification messages in the message history of a FPL and in the list of Outgoing

messages. Messages which could not be sent to the desired media (Fax, E-mail and/or SMS) are shown in the Outgoing message list with a red exclamation mark for ERROR status of distribution.

Impact on OUH: Operational User Handbook – Data User, chapter 2 and 7

Impact on user: Update of internal procedures to be considered: **Yes**

5.14 Distribution of PIBs via Briefing Facility Box (CHM-1759)

A new possibility is introduced allowing distribution of all PIB types to Private Value Added Network (VAN) addresses within the local MHS of the client via the BF-BOX. The BF-BOX sends the PIBs using the ATS-M over FMTP interface to the local MHS of the ANSP.

The new distribution option is introduced in the distribution tab of all PIBs where user can enter one or more VAN (AFTN) addresses.

Filter			Filter 2			Layout			Distribution			Scheduling			PIBs		
PIBHeader/Subject: <input type="text"/>																	
Distribution																	
<input type="checkbox"/>	E-mail	<input type="text"/>															
<input type="checkbox"/>	SMS	<input type="text"/>															
<input type="checkbox"/>	Fax	<input type="text"/>															
<input type="checkbox"/>	PIB Box	<input type="text"/>															
<input type="checkbox"/>	BF Box	<input type="text"/>															
<input type="button" value="Edit"/> <input type="button" value="Search"/>																	

Figure 5-42 PIB – Distribution

This option is available only to users belonging to an organization that have this function activated and are migrated to the Briefing Facility.

A new system parameter is available that allows configuration of restrictions (black or white list) for VAN addresses that can be used.

A new system parameter is available that allows configuring a dedicated originator AFTN address that is used only for sending PIBs.

The PIB distribution via BF-BOX is always in TXT format (69 characters per line). See example below.

```

+-----+
: EAD DFS :
: AERONAUTICAL INFORMATION SERVICES :
+-----+
: PRE-FLIGHT INFORMATION BULLETIN:: VALIDITY (UTC): :
: AERODROME : FROM: 11.11.2013 13:17 :
: : TILL: 12.11.2013 11:58 :
+-----+
: ID: EFHK1311110002 :
+-----+
: PROFILE:JVATEST : SCHEDULE: TEST :
+-----+
: SERVICE TYPE: FULL : :
+-----+
: DATE:11.11. 2013 TIME:13:17 UTC : HEIGHT LIMITS: :
+-----+ LOWER: 000 UPPER: 999 :
: FLIGHT RULES: IFR/VFR : :
+-----+
: CONTENTS: AERODROMES :
+-----+
: BRIEFING TYPE: INTERNATIONAL, MILITARY :
+-----+
: AERODROMES: LKPR :
+-----+
: LEGEND: :
: + NOTAM NOT OLDER THAN 250 DAYS :
: / DIFFERENT FROM ORIGINAL :
: - BEGINNING OF THE MESSAGE :
: () ORIGINAL NOTAM IS AVAILABLE :
+-----+

=====
LKPR - PRAHA/RUZYNE
=====

/ RAPID EXIT TAXIWAY INDICATOR LIGHTS
(RETIL) TWY L U/S.
FROM: 14 DEC 2012 14:35 TO: 29 MAR 2013 12:00 EST (A1666/12)

--= END OF PIB =--

```

Figure 5-43 Data User – PIB via BF-BOX

In case the delivery of the PIB via BF-BOX fails due to connection loss with EAD server, a dedicated e-mail shall be sent with notification. The e-mail addresses (recipients) of this notification can be defined in the new Corporate Identity property that is introduced.

Impact on OUH: Operational user Handbook – Data User, chapter 2 and 7

Impact on user: Update of internal procedures to be considered: **Yes**

5.15 Internet Briefing interface extension (CHM-2287)

The AIMSL interface to briefing Facility is extended to support the following functionalities:

- add API, allowing to retrieve single FPL by internal ID
- support Special Area PIB allowing to restrict the area with the polygon in for of coordinate list

- create FPL Proposal based on ICAO FPL text message format
- retrieve the current state of FPL in ICAO FPL text format
- retrieve FPLs based on call-sign pattern or ADEP/ADES (not related to specific user)

New push service for:

- all types of FPL related notifications for follow-up messages
- short text messages

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.16 Route and Briefing visualization (CHM-2306)

This functionality is available on request and requires that following steps are performed before it can be used:

1. Create a Service Desk ticket and request to obtain the licence for this functionality.
2. Client has to enter into a contract with Frequents and obtain a Bing Map licence.
3. After contract finalisation the functionality will be enabled for the client.

A new visualisation option is introduced in Data User for displaying flight route, FIRs and NOTAM in geographical context. User can trigger the display by pressing “View on Map” either on PIB or FPL screen.

Figure 5-44 Data User – View on Map

All NOTAM for a given PIB are listed in two tables below the map:

1. “NOTAM with radius >120”
Those NOTAM are not painted on the map due to the size of their coverage but they can be opened from the table.
2. “NOTAM List”
Those NOTAM are painted on the map.

A Flight Level slider is available on the right hand side. User can define either upper or lower level, the map reflects this selection immediately showing only NOTAM panel that correspond to the defined levels.

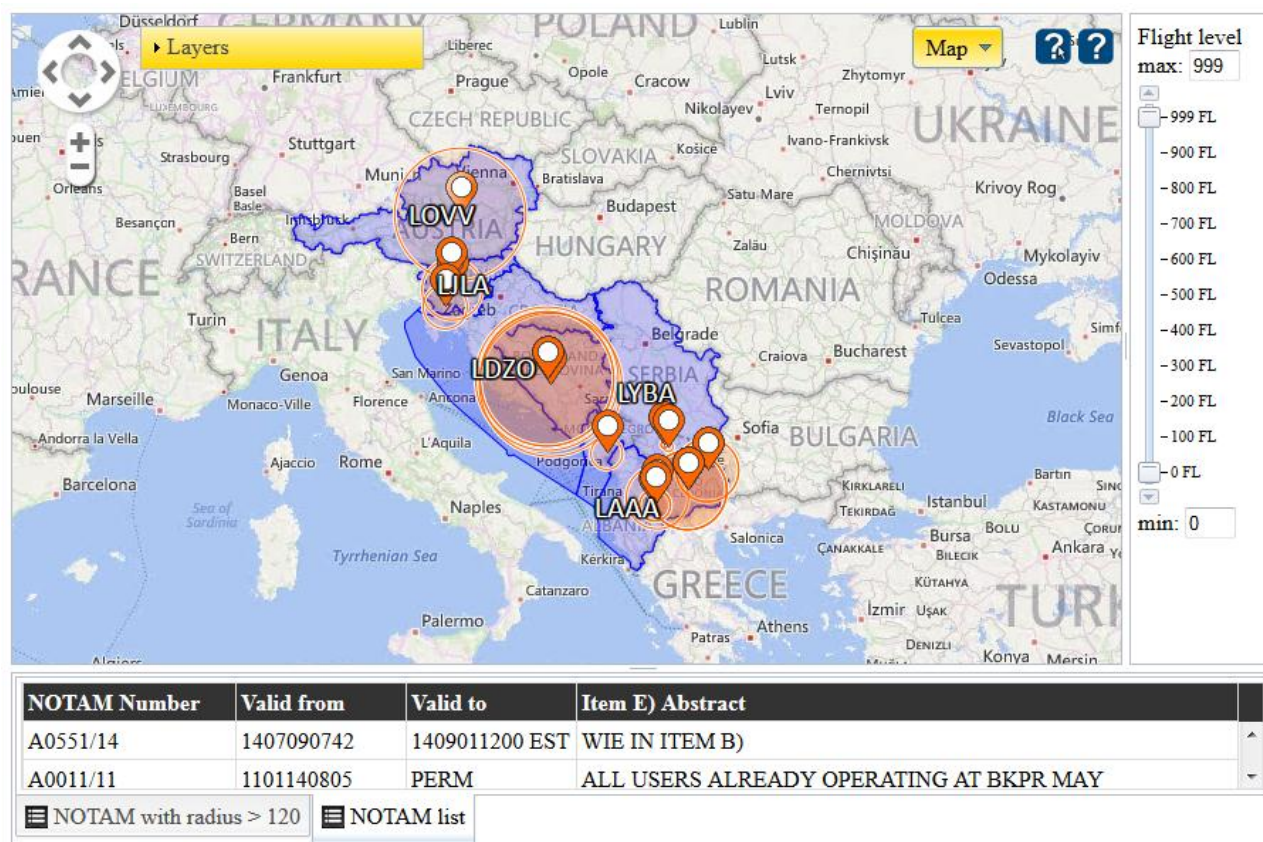


Figure 5-45 Data User – View on Map

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: No

5.17 NOTAM Ticker and BF available via SSL (CHM-2491)

NOTAM Ticker and Briefing Facility will be made available also for EAD Users connecting via SSL (EAD Pro). Both applications are already and remain accessible for users connecting via VPN.

Figure 5-46 EAD Pro Login

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

5.18 BF: Handling of incoming SS messages (CHM-235)

The handling of the incoming SS priority messages is improved so that the user gets informed the same way as for ALR messages:

An incoming message with an SS indicator associated to a flight plan triggers a counter increase for the important queue.

An incoming message with an SS indicator not associated to a flight plan is put into the yellow queue with a red exclamation mark.

In addition, according to ICAO requirements (Annex 10, Vol 2, Ch. 4.4.10.1.6.1) the reception of SS messages must be acknowledged by the AFTN destination station by sending a service message. The BF-BOX will automatically distribute such a service message regardless of the handling status of the message in operation. It is not visible to the BF operator, but is recorded by the BF-BOX and visible in the BF-BOX contingency application. Example:

- A single line beginning with R
 - Origin DTG + origin address (based on the received "SS Message")
 - End-of-text signal
- e.g.: (R 121455 LIMLZPZX)

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.19 BF: PIB Integration (CHM-344)

The Narrow Route PIB creation based on a flight plan is improved by introducing the following enhancements:

More information in the PIB header.

In case the Narrow Route PIB is based on FPL, the following information is added to the PIB Header:

1. FIR information with FL Range and Flight Rules (see below for more details)
2. Height limits with buffer (see below for more details)
3. Complete route from the field 15 of the FPL
4. Latest version of the FPL and the Slot message

The user can tick message type in Filter scree that includes the last Slot message to the PIB Header. It is possible to enable/disable the slot message display via Corporate Identity property.

Slot message in PIB output

Description: Defines if a PIB output for PIBs generated based on a flight plan should include the last SLOT message (in case the flight plan has received it).

Validation: The property can be either activated or deactivated.

Default value:

Customized value:

Figure 5-47 CI – Slot message in PIB output


		<p>AERONAUTICAL INFORMATION SERVICES <Country and Organisation></p>	
<p>Pre-Flight Information Bulletin: Narrow-Route</p>		<p>VALIDITY (UTC): <DD MON YYYY hh:mi>-<DD MON YYYY hh:mi></p>	
<p>Id: <unique identification number></p>			
<p>Profile: <profile name></p>		<p>Schedule: <schedule name></p>	
<p>NSC Profile: <NSC profile name></p>			
<p>NSC Filter: <[!](XXXX XXXX ...)></p>			
<p>Service Type: <Full/UU/UF></p>		<p>Last Generation: <DD MON YYYY hh:mi></p>	
<p>NOTAM not older than: <days></p>			
<p>Date: <DD MON YYYY> Time: <hh:mm> UTC</p>		<p>Flight Rules: IFR/VFR</p>	
<p>Contents: <plain language></p>			
<p>Height Limits (lower/upper): First: ddd/ddd Other: ddd/ddd Last: ddd/ddd</p>			
<p>Or Height Limits: Buffer +/- 2 Flight Levels</p>			
<p>ADEP: <AD></p>		<p>ADES: <AD> Alternates: <AD> - <AD> - <AD> -, etc.</p>	
<p>FIR: <FIR Name> <FL Range> <Flight Rules> <FIR Name> <FL Range> <Flight Rules> <FIR Name> <FL Range> <Flight Rules> etc.</p>			
<p>Route: <Complete FPL route as defined in field 15></p>			
<p>Width of Route: <Width></p>		<p>Radius around AD: <Radius></p>	
<p>Item E: <Contains Does not contain> <Keywords separated by a semicolon></p>			
<p>Legend: + NOTAM not older than 3 days * Different from original - Beginning of the message Item X) short version of NOTAM text; for full text please contact AIS unit</p>			
<p>The PIB has been generated for the following Flight plan: <Complete FPL message in ICAO format> <The latest slot message associated with the FPL></p>			

Figure 5-48 PIB Header – Narrow Route

The flight level information from FPL is used for more detailed filtering during Narrow Route PIB creation.

1. FL Buffer

Filter tab of Narrow Route PIB contains a new option called “Buffer” for defining Flight Level buffer in consecutive standard ICAO flight levels. After entering a value (between 0 and 9) and clicking Apply, the level information in the FIR list is re-calculated considering the actual ‘Buffer’ field value. Default FL buffer value is set to 2 and it is configurable per organisation via CI property.

Default value of FL Buffer

Description: Defines the number of standard flight levels, which shall be used as the default buffer in vertical direction during Narrow Route PIB creation based on a flight plan.

Validation: The property can contain a number between 0 and 9

Default value:
Customized value:

Figure 5-49 CI – Default value of FL Buffer

FL Buffer is defined as number of consecutive standard ICAO flight levels above and below the flight level defined in FPL route. For the calculation INO DU shall use ICAO Table of Cruising Levels.

Example:

FL Buffer = +/-2 FL

For FL 94 defined for VFR part of flight, the system first selects FL 95. Then FL 75 is used for lower height limit and FL 115 for upper height limit.

For FL 180 defined for IFR part of flight, the system selects FL 160 for lower height limit and FL 200 for upper height limit.

The vertical filter is calculated and applied separately for each “en-route” FIR of the associated flight plan. It is calculated as lower and upper height limit according to the flight level and flight rule changes defined in field 15, taking into account +/- value of FL Buffer. Vertical buffer for each FIR shall be calculated differently for IFR, VFR and mixed (IFR/VFR) flights:

IFR

First FIR: lower = 000
 upper = max. FL in FIR + FL Buffer
Middle FIR: lower = min FL in FIR – FL Buffer
 upper = max. FL in FIR + FL Buffer
Last FIR: lower = 000
 upper = max. FL in FIR + FL Buffer

VFR

In case flight levels for a VFR flight are not defined in field 15, the option “All” is pre-selected with default values 000/140, which can be updated by user.

In case exact flight levels for VFR flights are defined in field 15, the system follows the same algorithm as for an IFR flight (described above).

Mixed (IFR/VFR)

The algorithm follows IFR rules for IFR part of the route and only NOTAM issued for IFR flights are included and it shall follow VFR rules for VFR part of the route and only NOTAM issued for VFR flights are included. For FIR where flight rules are changing from VFR to IFR or from IFR to VFR, the lower limit shall be set to 000 and upper limit to the highest FL in the FIR + FL buffer.

2. List of FIRs is enhanced with two additional columns:

- **FL Range:** Lower and Upper FL limit (e.g. 210-450)
- **Flight Rules:** IFR, VFR, IFR-VFR or VFR-IFR

En-route” FIRs displayed in the list are displayed with FL Range and Flight Rule values calculated for the associated FPL and with FL Buffer value. FIRs, which are added to the list manually, have FL limit values 000-999 and flight rules IFR-VFR by default.

It is possible to change FL Range limits manually for every FIR displayed in the FIR list. The FIR section in the PIB header includes also all the new information.

Narrow Route PIB ?

Template:

Filter **Filter 2** Layout Distribution Scheduling

Validity
 From: 15 - MAR - 2012 12 : 33 UTC
 To: 16 - MAR - 2012 12 : 33 UTC

NOTAM Validity
☒ All
☐ Not older than: days

Briefing Type
☒ Int
☐ Nat
☒ Mil

Message Type
☒ NOTAM ☐ SNOWTAM ☐ AIM
☐ BIRDTAM ☐ ASHTAM ☐ Slot message **3**

Flight Rules
☐ IFR
☐ VFR

Flight Level
☒ All Upper: 999 999 999
☐ Det Lower: 000 000 000
☐ Buffer FL **Apply** **1**

All-FIR
2

Aerodromes/Heliports
 Identifier: LPSC + - Find

ID	AD Name	Type
UDD	MOSCOW/DOMODEDOVO	AD
LPSC	SANTA CRUZ	ADES

 Items: 2/50

FIRs
 ICAO: + - Find

ICAO	Name	FL Range	Flight Rules
UUV	MOSCOW FIR	000-390	IFR
UMM	MINSK OPEN FIR	260-390	IFR
EPW	WARSZAWA FIR	260-390	IFR
LKAA	FIR PRAHA	260-390	IFR
EDMM	MUNICH FIR	260-390	IFR
EDGG	LANGEN FIR	000-390	IFR-VFR
LFFE	REIMS FIR	000-140	IFR-VFR

 Items: 12/40

Generate **Profile** Default - changed **Clear**

Figure 5-50 Narrow Route PIB – Filter

3. Updates to PIB validity period

Narrow Route PIB that is associated with a FPL (dynamically or manually created) will have the default start of validity equal to EOBT of the FPL.

The default PIB end of validity is automatically set to EOBT + ETA + configurable amount of hours (default value 3 hours). The amount of hours is configurable per organization via the CI property application (in range 0 – 22 hours).

PIB end validity offset

Description: The end validity period of PIBs based on a flight plan is set to EOBT + ETA + X hours. This parameter defines the X, which is an offset of PIB validity end after the estimated time of flight has passed.

Validation: The property can contain a number between 0 and 99

Default value:
 Customized value:

Figure 5-51 CI – PIB end validity offset

In case a flight has been delayed and PIB distribution before EOBT has been activated, the time of distribution and the PIB validity are adopted accordingly.

Validity period of an update PIB respects the EOBT of FPL associated with the original PIB. "From:" time shall be EOBT (latest version of flight plan). If EOBT has already passed, it shall be the current time of update PIB generation. "To:" time shall be set to EOBT (latest version of flight plan) + ETA + configurable amount of hours.

The following default values are used for Narrow Route PIB in case the PIB is created without using the PIB dialog (e.g. directly from FPL list or dynamically activated PIB):

- Start of validity: equal to EOBT in FPL
- End of validity: EOBT + ETA + configured amount of hours
- FL Buffer: +/- 2 FL in case of IFR and mixed (IFR/VFR) FPL or VFR flights where given exact flight level in the field 15
- "All" Flight Levels (000/140) in case of VFR flights where there is not given exact flight level
- FPL message included in PIB
- SLOT message included in PIB (if enabled by configuration)

Impact on OUH: Operational user Handbook – Data User, chapter 2.6.4

Impact on user: Update of internal procedures to be considered: **Yes**

5.20 BF: Automatic FPL replace procedure (CHM-738)

When the key field(s) of a flight plan are changed, the CNL and new FPL message are distributed by the system automatically.

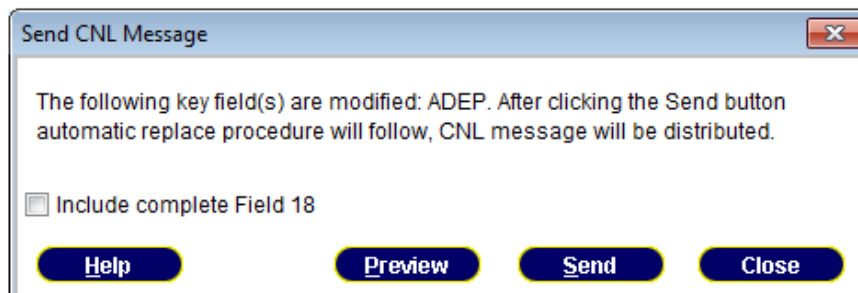


Figure 5-52 BF – Send CNL Message

The following principles are applied for this process:

- Key fields triggering the automatic process are ARCID, ADEP, ADES, EOBT, DOF.
- New FPL message distribution is dependent on the reaction from IFPS. Till the reaction is received, the flight plan does not accept any changes. Only after receiving the appropriate ACK for CNL the new FPL message is sent out automatically.
- If user opens the FPL while waiting for ACK, a message dialog informs the user about FPL being under replace procedure. The FPL contains the old fields until ACK is received.
- If REJ is received, the values are not changed, old values are valid and flight plan is unblocked for further possible changes.
- The Automatic replace procedure is also applied for all non-IFPS flight plans. Except the new FPL message will be sent automatically without waiting for ACK.

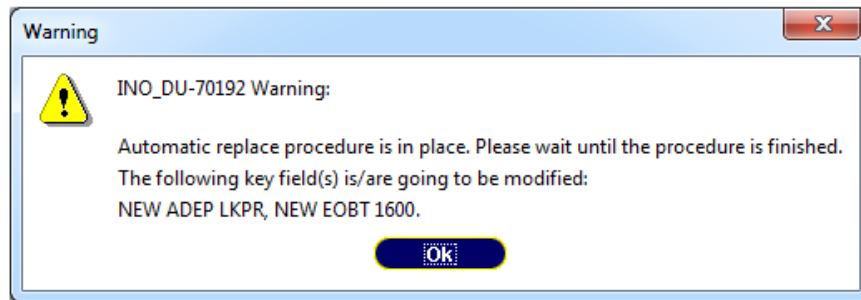


Figure 5-53 BF – FPL under replace procedure

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

5.21 BF: Separate email for PIB and BF messages (CHM-878)

This change introduces a possibility to define a separate e-mail address(s) for Dynamic PIB Distribution and FPL Notifications in BF.

When the user activates the checkbox 'Distribute PIB before EOBT', an additional field is enabled for the user to include e-mail addresses for PIB delivery. In case the checkbox is ticked but left empty, the addresses defined for FPL notifications are used.

Also, Client / Address Management will be updated to include this new element.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

5.22 BF: Message priority (CHM-1147)

The default priority on 'Forward', 'Resend' and 'Reply' dialogs is changed to FF. It can be updated by user directly in the dialog if needed.

Forward

Addresses

Filing Time: 271306 Originator: LPPTZPZX Priority: FF

Addresses:

E-mail:

Fax:

SMS:

Text

(FPL-K4XH3IC/A2222-IS
-B734/M-SDE1FGHIRWY/L
-LJLJ0944
-N0366F210 VALLU3D VALLU L156 LAPNA L859 XANUT XANUT1W
-LOWW0040 EDDN
-PBN/B1D102 DOF/140627 REG/OOINN EET/LOVV0014 RVR/200 OPR/TNT AIRWAYS
ORGN/EBLGTAYO RMK/TCAS EQUIPPED)

Help Send Close

Figure 5-54 BF – Forward

The default priority for outgoing CNL message is changed to FF. It can be updated by user directly in the preview dialog to DD if needed.

Preview

Addresses

Filing Time: 271308 Originator: LPPTZPZX Priority: FF

Addresses:

Re-Addressing (AD):

Text

(CNL-EZBRIUS/A1234-EDDM2042-LJLJ-DOF/140627)

Help Send Close

Figure 5-55 BF – Preview

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

5.23 BF: Access to Network Operations operational applications (CHM-1341)

The following changes are introduced for connecting BF directly with EUROCONTROL Network Operations web-services:

1. Current FPL validation function in BF sends (in the background) the FPL to IFPUV validation system via AFTN, followed by response from IFPUV and respective update of validation status. This background process is replaced with web-service based validation, connected directly to Network operations. It is applicable for all I, Y, Z flights inside IFPZ.

In case web service for FPL validation is not available, the existing AFTN validation process is used: a warning message is displayed to the user: "Web-services for validation are not available. IFPUV validation will be used instead".

2. Currently in BF the 'Route Proposal' function is available, which allows planning (and selection of shortest) flight route between given departure and destination aerodromes. The scope of planning is not limited (it allows also planning outside IFPZ) and EAD SDO is the data source for route planning. Similar function is available via Network Operations web service, named "CFMU Route Assistance". It is limited to IFPZ area. The data source for CFMU service is using also dynamic data (route restrictions etc.).

For flights inside IFPZ, B2B service will be used. Outside IFPZ the EAD Route proposal will be used. For flights with route parts inside and outside IFPZ a combination of EAD route proposal and CFMU Route assistance services will be used. For the user it is always clear and transparent which underlying service for the route proposal calculations is used.

In case web service for Route Assistance is not available, the EAD Route Proposal is used: a warning message is displayed to the user: "CFMU Route assistance service is not currently available. EAD Route Proposal function based on static EAD data is used instead."

Additionally, to support the operations, the following webpage is made available and can be accessed within EAD network:

<https://www.public.cfm.eurocontrol.int/PUBPORTAL>

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

5.24 BF: Improvement of automatic message forwarding (CHM-1350)

BF currently allows sending SMS, email and fax notifications for several message types. This function is improved by following changes:

1. The Notification setting currently contains three options for ACK messages: Long ACK, Short ACK, Short ACK + Original Message. These three types shall be combined into one group – ACK, which shall cover all ACK types of notifications.
2. There will be a possibility to send ad-hock notifications for incoming/outgoing messages from the context menu of the Message list panel in the FPL dialog, it will be available for all message types.
 - a. This function is disabled if no contacts are specified in client information (e-mail, mobile number or fax number). Notification distribution reflects the Notification settings defined in the Supplementary tab.
 - b. If the selected message type for ad-hock notification distribution is among notification settings of concerned flight plan, the ad-hock notification is distributed to these specified contacts.

- c. If no notification setting is defined for the concerned message type (no media selected with check-boxes on SPL tab for the message type) the distribution goes to all possible media (SMS, fax and/or e-mail) that are defined in the client section of the flight plan.
- d. The rule above does not apply for ORM message types (ACK, REJ, MAN).
- e. If at least for one ORM the notification settings are selected, it is used also for other ORM when user executes ad-hoc notification.
- f. If for more than one ORM notification settings are selected they are combined for Notification distribution.
- g. If no notification setting is selected for any ORM message type then notification shall be sent to all specified contacts in the Client tab.

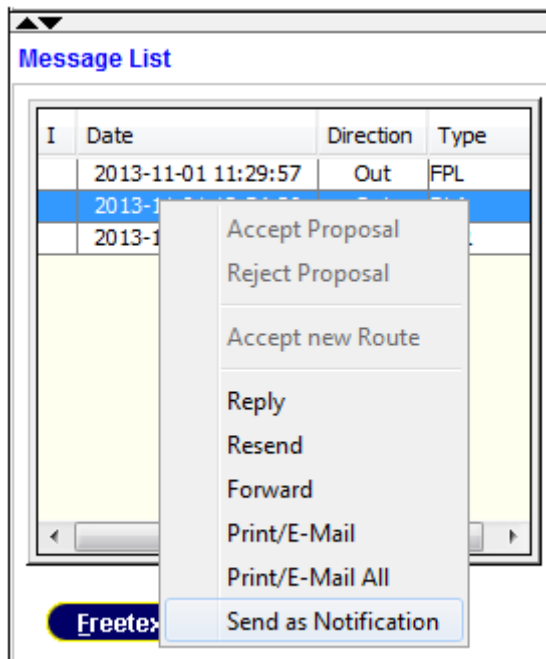


Figure 5-56 BF – Send as Notification

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.25 BF: Free Text templates (CHM-1633)

This change introduces the possibility to save any Free Text message in BF as a Template, for managing and use later on. FPL Template management is also extended to manage Free Text Templates. User can also access the saved templates via “Quick access field” in Free Text dialog that is opened from Incoming or Outgoing Messages screens.

Figure 5-57 BF – Free Text Message

Impact on OUH: Operational User Handbook – Data User, chapter 7

Impact on user: Update of internal procedures to be considered: **Yes**

5.26 BF: Enable short messages in FPL context for ARO operator (CHM-2327)

This change introduces and possibility for the ARO operator to send small text messages related to the flight plan which shall be accessible to the home- and self-briefing user. The current solution in BF allows sending such message only in case of reject. Such message is also included in the list of follow-ups related to the flight plan as any other message or notification.

The ARO operator shall tick the newly introduced checkbox “Internet” in order to send the message to home- or self-briefing user. For a non-internet FPL, the checkbox is inactive.

A dedicated CI property is introduced for making the “Internet” checkbox available or not available. This property is available only to organisations that have migrated to Internet Briefing Services that uses AIMSL.

INTERNET media type on FreeText dialog

Description: Defines if the FreeText message dialog has available the media type INTERNET, which is used for sending to IBS or AIMSL short information messages.

Validation: The property can either be activated or deactivated.

Default value: **No**

Customized value: **YES**

Figure 5-58 CI property – Internet media type

The screenshot shows a software interface for sending a free text message. It is divided into two main sections: 'Addresses' and 'Text'. The 'Addresses' section contains several input fields: 'Filing Time' with the value '121517', 'Originator' with a dropdown menu showing 'LPPTZPZX', 'Priority' with a dropdown menu showing 'GG', and four empty text boxes for 'AFTN:', 'Email:', 'Fax:', and 'SMS:'. Each of these four text boxes has a magnifying glass icon to its right. Below these is an 'Internet:' checkbox, which is highlighted with a red rectangular box. The 'Text' section is a large, empty rectangular area for entering the message content. At the bottom of the interface are three buttons: 'Help', 'Send', and 'Close'.

Figure 5-59 BF – Free Text Message

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

5.27 BF: BF-BOX communication timeout (CHM-2410)

BF-BOX software is changed to handle HTTP connection timeout of EAD server and not block other requests because of one pending.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

5.28 BF: BF-BOX remote monitoring and service (CHM-2419)

With this change the BF-BOX will be able to send more detailed information on demand for investigation and monitoring purposes to EAD ITP. All actions will be read-only.

1. During every BF-BOX application start/restart status monitoring information shall be sent from the BF-Box to the EAD server:
 - IP address,

- bf-box user name,
 - time of last start,
 - time of last message distributed,
 - incoming messages counter for last 90 minutes,
 - outgoing messages counter for last 90 minutes and,
 - number of error messages
2. It will be possible for EAD ITP to send additional (specific) requests to the BF-BOX in order to receive more detailed information on demand:
- Request log files
 - Request configuration files
 - Request ping to AFTN (to check connectivity between BF-BOX and AFTN switch)
 - Execute SQL query (SELECT statements only)

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

6 Graphical Tools

The following Graphical Tools changes are deployed with **Release 9**:

- | | |
|----------------------------|---|
| • Change Proposal CHM-2415 | Change to LuciadLightspeed airspace layer |
| • Change Proposal CHM-2416 | Change to LuciadLightspeed route layer |
| • Change Proposal CHM-2417 | Migration from Luciad Map to LuciadLightspeed |

6.1 Change to LuciadLightspeed airspace layer (CHM-2415)

The airspace layer including all its painting capabilities is adapted to use the LuciadLightspeed technology. This will speed up rendering in situations where painting many objects, or displaying complex visualizations on the map.

Some minor GUI components, like labels, might appear differently due to the use of the new Luciad technology. There are no changes to functionality.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

6.2 Change to LuciadLightspeed route layer (CHM-2416)

The route layer including all its painting capabilities is adapted to use the LuciadLightspeed technology. This will speed up rendering in situations where painting many objects, or displaying complex visualizations on the map.

Some minor GUI components, like labels, might appear differently due to the use of the new Luciad technology. There are no changes to functionality.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

6.3 Migration from Luciad Map to LuciadLightspeed (CHM-2417)

GT Client software is upgraded from Luciad Map to LuciadLightspeed, which is designed to leverage the power of the computer hardware to obtain exceptional visualization performance.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

7 PAMS

No changes

8 AIP

The following AIP changes are deployed with **Release 9**:

- | | |
|----------------------------|--|
| • Change Proposal CHM-323 | ENR 3 Route table enhancement |
| • Change Proposal CHM-797 | Ability to reuse the contents of a document within several document sets |
| • Change Proposal CHM-2373 | Changes to AIP – Create cover page functions |
| • Change Proposal CHM-2374 | Add structural element for text to be underlined |
| • Change Proposal CHM-2375 | Additional ENR 4.1 NAVAID table design required |
| • Change Proposal CHM-2376 | AIRAC label on eSUP HTML pages |
| • Change Proposal CHM-2377 | Route-RNAV and Route-segment-RNAV |
| • Change Proposal CHM-2378 | Add chart file dialog to specify the session EFF date |
| • Change Proposal CHM-2380 | ESI connector configuration in FrameAPS |
| • Change Proposal CHM-2381 | Automation to include the published PDF AIP document in the eAIS Package |
| • Change Proposal CHM-2382 | Rollback of a specific AIP part |
| • Change Proposal CHM-2384 | Inserting database charts into Aerodrome-chart documents |
| • Change Proposal CHM-2385 | Create a structured checklist of Supplements as a Supplement |
| • Change Proposal CHM-2388 | Metadata recording and data processing updates (ADQ) |
| • Change Proposal CHM-2395 | Split of ENR 4.4 Significant points files/tables |
| • Change Proposal CHM-2465 | Remove AD2, 3, 4, 5 & 6 tables if they are blank |
| • Change Proposal CHM-2467 | GEN 2.4 Tables with ad-hoc content |
| • Change Proposal CHM-2468 | AD2.22 tables formatted as subsections for STARs, IAPs and SIDs |
| • Change Proposal CHM-2471 | Datalink Search Term Continuity |
| • Change Proposal CHM-2472 | AIP Manager window to retain focus after file operations |
| • Change Proposal CHM-2473 | Populating file property fields of more than one file at a time |
| • Change Proposal CHM-2480 | True Bearings in ENR tables when Magnetic Bearings are not available |
| • Change Proposal CHM-2481 | Text used for RNP or RNAV to be configurable and optional for ENR tables |
| • Change Proposal CHM-2482 | Automated hiding of the Route Segment Usage remarks at the top of the tables |
| • Change Proposal CHM-2483 | Regeneration option for ENR 4.1 table |

8.1 ENR 3 Route table enhancement (CHM-323)

This change request is to harmonise the display of ENR 3 Route tables.

The content of the Route-segment-airspace-class element will be displayed – in both PDF and HTML output formats – with a prefix and suffix of braces, also known as curly brackets. For example: {C}

For ENR 3.3 RNAV Route tables that do not include Route-segment-tracking-cell elements, the "Initial Track" column will not be displayed in the HTML output.

If the ENR 3.3 Route tables include Route-segment-tracking-cell elements, the "Initial Track" column will be displayed – as per existing functionality.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.2 Ability to reuse the contents of a document within several document sets (CHM-797)

This change is to allow the ability to reuse the contents of a document within several document sets.

When a section of document content is stored in the database for reuse in other document, the original text is left untouched without making any changes to the source document.

To determine if a document contains shared data, select the document in the AIP Manager dialog, and select File > Properties menu item. A radio dot will appear in the dialog, if the document is the source of shared content.

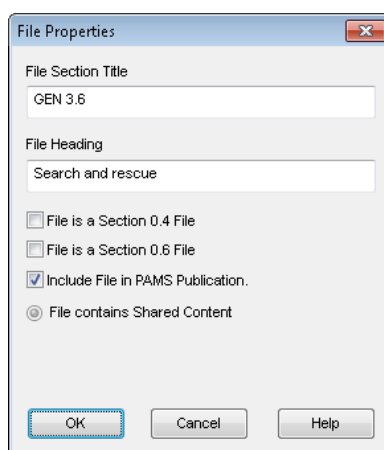


Figure 8-60 GEN 3.6 file sources Shared Content

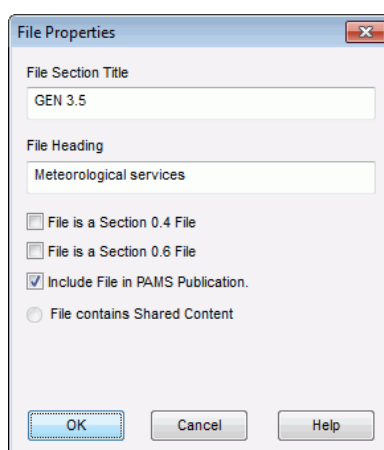


Figure 8-61 GEN 3.5 file does not source Shared Content

NOTE: If a document contains shared content, and is checked in to the database, a warning will be displayed to advise the AIP Editor that other documents may be affected by this (source) document.

NOTE: When a source document has a shared content piece which contains datalinks – or text amendments marked for insertion or deletion – the source AIP should be generated and issued prior to reusing the shared

content in a target document. This is to prevent the target document from having unprocessed datalinks and amendments.

NOTE: During the AIP > Generate AIP command – or during a File > Preview command – the generation report document will indicate if the shared content has been deleted from the source document. If this occurs, recommended actions are to convert the shared content to text, or to delete the reference to the shared content.

For further details, review the FrameAPS user manual.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.3 Changes to AIP – Create cover page functions (CHM-2373)

The current FrameAPSxml "AIP > Create Cover Page" function uses the PAMS Section text for the names of the document pages to insert/remove.

This change modifies the way how the cover page obtains the document names. The "Create Cover Page" function will create a list of amended document pages based on either:

- The document's PAMS Section text [the existing functionality], or:
- The FrameMaker document's <\$chapnum> variable.

For further details, consult the FrameAPS user guide.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.4 Add structural element for text to be underlined (CHM-2374)

This change introduces an additional structural element allowing for textual elements to be formatted with underlining (both for PDF and HTML output).

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

8.5 Additional ENR 4.1 NAVAID table design required (CHM-2375)

The ENR 4.1 table of NAVAIDs typically lists the Radio Navigation Aids that are parts of Route segments. Some states do not declare all NAVAIDs as being as part of Route segments, but they wish to include other NAVAIDs in the ENR 4.1 table.

This change provides the capability for an additional table design, allowing for all NAVAIDs to be queried for inclusion in the ENR 4.1 table.

For example, a table of all the non-GP and non-LLZ NAVAIDs for a country that are defined En-Route and/or at ADHP can be found by specifying search criteria for Facility: !GP% & !%LLZ% ; and Purpose: A|E|AE

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.6 AIRAC label on eSUP HTML pages (CHM-2376)

The EUROCONTROL eAIP specification does not include the ability to include an AIRAC label in the masthead banner of eSUP HTML page.

This change is for closing that gap resulting in closer harmonisation between PDF and eAIP HTML published output: "AIRAC" shall be displayed in the masthead of AIRAC eSUP [HTML] documents.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

8.7 Route-RNAV and Route-segment-RNAV (CHM-2377)

This change introduces the capability in FrameAPS to include 2 extra elements – Route-RNAV and Route-segment-RNAV – in ENR 3 Route Tables. This is based on EUROCONTROL eAIP specification.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.8 Add chart file dialog to specify the session EFF date (CHM-2378)

In order to improve the client experience when placing database charts, the FrameAPS will present the user with the current Session Default date in the correct date format (DD-MM-YYYY) when adding chart files to the database, unless the default has not yet been set at which time it will display the current date.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.9 ESI connector configuration in FrameAPS (CHM-2380)

In order to ease the configuration of the ESI connector, the following changes are introduced:

1. When the FrameAPS application is being installed using the `SETUP.EXE` executable, the installer will query the user for the location of the ESI folder, and will configure the FrameAPS [APS> Options> Advanced Options "CLASSPATH"] entry to detail the java libraries and classes required for publication using the ESI connector.
2. When the FrameAPS AIP application is launched, the `default.properties` configuration file will be read, and the JMS Username, JMS Password, and ESI Identity values will be displayed [read-only] in the PAMS publishing tab of the APS > Preferences > Advanced Options dialog.
3. If the JMS Username, JMS Password, and ESI Identity values could not be read, or if the specified certificate [Private key file] is not accessible, a warning dialog will be displayed indicating that PAMS publishing settings are not correctly configured, and that the publishing to PAMS functionality will be disabled.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

8.10 Automation to include the published PDF AIP document in the eAIS Package (CHM-2381)

This change will allow the user to choose if prior published AIP [PDF] documents are to be copied from the respective published AIP part [GEN, ENR, AD] folders, AIC folders, and Supplement folders, into a 'pdf' folder located in the dated publish folder – so as to allow the 'PDF' button in the HTML commands frame to display the corresponding document.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.11 Rollback of a specific AIP part (CHM-2382)

In order to save time when an error is found in an already generated file, this change introduces an option to rollback an individual part of an AIP that has one or more generated parts. For example just the AD section.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.12 Inserting database charts into Aerodrome-chart documents (CHM-2384)

The existing functionality in FrameAPS is modified so that it is possible to insert database charts into an AIP document as a single graphic-file element without being wrapped inside the Figure element.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

8.13 Create a structured checklist of Supplements as a Supplement (CHM-2385)

With this change users can create a checklist of valid Supplements as a Supplement. The same can be done for all valid circulars.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.14 Metadata recording and data processing updates (ADQ) (CHM-2388)

In order to comply with European Commission Regulation (EU) No 73/2010 the APS production software is modified to record an agreed set of Metadata about the transactions that take place when the system processes data and documents for publication as PDF and HTML.

This metadata will be stored within the APS systems document storage during keys stages of the AIP production Process (Generate, Issue and Publish) and also be made available on request for working production files.

The metadata will be extracted from the normal production information provided by the system and stored with additional user-defined comments (Check-in remarks, Issue remarks etc.) in an xml report document format within the document management system. Additionally a reference to the xml metadata report documents will be sent to the EAD Metadata Collection Repository.

Impact on OUH: Operational User Handbook – Data Provider, chapter 7

Impact on user: Update of internal procedures to be considered: **Yes**

8.15 Split of ENR 4.4 Significant points files/tables (CHM-2395)

The ENR 4.4 tables can be quite large and get even larger in future. To be able to manage the production cycle, this change introduces a possibility to split the document into separate Custom-AIP-Section-Document files.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.16 Remove AD2, 3, 4, 5 & 6 tables if they are blank (CHM-2465)

This change introduces new option that allows user to user to optionally remove empty tables, nil sections and section headings. If a blank table or Section is inserted into an AD 2, 3, 4, 5 & 6 file because there is no data, that table would be removed automatically (or not inserted).

APS > New > Structured AIP Section >

Automatically Insert Document Content Dialogue box. (Do not include headings and tables for empty sections)

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.17 GEN 2.4 Tables with ad-hoc content (CHM-2467)

This change introduces a new methodology for the creation of the GEN 2.4 Tables:

1. The FrameAPS allows the creation of GEN 2.4 tables which reflect the contents of the AD section book file.
2. The FrameAPS allows customised insertions of GEN 2.4 tables by providing a selection based on the AIP and AD book file, with filtering by the AD sections required in the table, e.g. AD2|AD3|AD4|AD5|AD6 (In the same way as the 'AD 1.3 (Create from book file)' table works).

This change modifies the way in which the AFS attribute is displayed in the search results – and it also sets the AFS attribute of the Location-indicator element as appropriate.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

8.18 AD2.22 tables formatted as subsections for STARs, IAPs and SIDs (CHM-2468)

This change introduces capability for user to automatically create AD2.22 procedure tables that are formatted as subsections for STARs, IAPs and SIDs.

APS > New > Structured AIP Section >

“Automatically insert document content, [x] AD-X.22 Flight Procedures”

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.19 Datalink Search Term Continuity (CHM-2471)

Currently, when switching between AD and procedure while searching by AD ident in Datalinks, the AD ident is lost and has to be re-entered.

With this change all search criteria for each type of datalink is remembered for the current session and the dialog will be prepopulated with this information.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

8.20 AIP Manager window to retain focus after file operations (CHM-2472)

The AIP Manager has been modified so that large AIP sections – such as the AD section – will no longer scroll back to the first entry in the AIP part, but will instead show the top most selected file in the file list.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

8.21 Populating file property fields of more than one file at a time (CHM-2473)

With this change the user is able to select one or more files from the file manager (in a single book file) and apply a change to their File Heading and File Section Title properties, the effect being that all changed properties are changed for all selected files.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

8.22 True Bearings in ENR tables when Magnetic Bearings are not available (CHM-2480)

With this change the True Bearings can be used in column 2 of the ENR tables (segment line). True Bearings are always marked with “T” and will be used only in case they are loaded in SDO. In case only Magnetic or both Magnetic and True Bearing is available in SDO, the Magnetic will be shown.

This is needed in areas where Magnetic Bearings are unsuitable due to the proximity to the Magnetic Pole (e.g. Canada) and True Bearings need to be used instead.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.23 Text used for RNP or RNAV to be configurable and optional for ENR tables (CHM-2481)

Additional flexibility is introduced for handling ENR tables by introducing an option that allows:

1. The Route segment RNP descriptor to be optional when placing a route via the ENR Route Manager or the individual table generators.
2. The Route segment descriptor for all ENR Route segments to be configurable.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.24 Automated hiding of the Route Segment Usage remarks at the top of the tables (CHM-2482)

With this change the FrameAPS software is extended to allow for structured ENR 3 route tables to be reformatted, so that either:

- a. the Route-segment-remark elements and Route-segment-usage-remark elements are displayed [inside the Route-usage-notes-cell], and references to those elements will show just the number. For example, the Route-segment-comments -cell will display:

(1)

or:

- b. the Route-segment-remark elements and Route-segment-usage-remark elements are not displayed [inside the Route-usage-notes-cell], but references to those elements will display the number and the associated text.

For example, the Route-segment-comments -cell will display:

(1) NONFUA

(2) AR VU COP is 56/39 between YLD - Chapleau and YTS - Timmins

To activate this feature on a range of ENR 3 Route documents:

1. In the AIP Manager, select the ENR 3 Route document(s), and then select File > Check Out

2. In the AIP Manager, select File > Select Route Remarks Position... menu item, and select "Place Route Remarks at Top", or "Place Route Remarks at Side" menu item

NOTE: The eAIP editor may make some customisations to the paragraph and cross-reference formats to suit local style requirements in the styling template documents:

[RouteSegmentRemarksTopFormats.fm](#)
and
[RouteSegmentRemarksSideFormats.fm](#).

NOTE: New Tables that are inserted into the ENR 3 route document are based on the table styles [stored in the "ENR3.3Route" and "RouteTemplate" text flows, located on the Headings reference page] of the document:

[C:\Program Files\Adobe\FrameMaker8\Templates\FrameAPS\Structured\eAIP.tpl.fm](#)

If desired, the styling template documents may be imported into the eAIP.tpl.fm documents to ensure consistency.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

8.25 Regeneration option for ENR 4.1 table (CHM-2483)

With this change a new function is introduced providing the user an option to re-generate the ENR 4.1 table in FrameAPS every time the document is generated.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

9 Chart Production

The following Chart Production changes are deployed with **Release 9**:

- | | |
|----------------------------|--|
| • Change Proposal CHM-172 | Holding based on waypoint |
| • Change Proposal CHM-904 | Filtering candidate elements based on NDP attributes |
| • Change Proposal CHM-2389 | Obstacle grouping |
| • Change Proposal CHM-2390 | ADQ metadata recording |
| • Change Proposal CHM-2391 | SDO Data Import UML documentation |
| • Change Proposal CHM-2448 | Scale bar toggle |

9.1 Holding based on waypoint (CHM-172)

Holdings on a chart need to be depicted in true orientation, while the label should indicate the magnetic course. Chart Production takes this into account with one exception: holdings based on en-route waypoints. The magnetic variation for these waypoints is not filled in AIXM 4.5. Hence, waypoints based on terminal holdings will generally have a slightly wrong orientation because there is no compensation for the magnetic variation (unless it is 0).

This change introduces a solution by prompting the user for the magnetic variation when the element is placed.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

9.2 Filtering candidate elements based on NDP attributes (CHM-904)

The candidate dialog boxes are extended with a customisation dialog box where the user can add NDP attribute values. The user can then use the regular filter dialog box to filter both on the regular attributes and the NDP attributes. In addition, the candidate lists are made scalable and the maximum number of columns will be extended to allow the user to optimise the view.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

9.3 Obstacle grouping (CHM-2389)

Client-side tool is introduced allowing grouping of obstacles, which will after grouping be represented by a single feature and contain group-related attributes like the maximum of all obstacle heights.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

9.4 ADQ metadata recording (CHM-2390)

Any aeronautical data and information usage and transformation needs to be recorded in accordance with European Commission Regulation (EU) No 73/2010.

Based on above the following technical changes are introduced in charting application:

1. A new plugin is added, which will handle the metadata flow (i.e. put it in the correct format, hand it off to a data store and retrieve logged data).
2. The charting application will be extended with calls to this plugin, wherever aeronautical data or information gets modified, logging any metadata describing where the data came from, which settings were used and who made the change.

From the user's perspective there are no functional changes.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

9.5 SDO Data Import UML documentation (CHM-2391)

The data import from SDO to CHP will be described in UML according to European Commission Regulation (EU) No 73/2010.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

9.6 Scale bar toggle (CHM-2448)

This change introduces a toggle to switch on or off the lower half of the automatic scale bar. Users have indicated that they do not always wish to include the 2 units of measurement in the automatic scale bar.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

10 Basic Software

The following Basic Software changes are deployed with **Release 9**:

- | | |
|----------------------------|---|
| • Change Proposal CHM-1753 | Client side Java upgrade |
| • Change Proposal CHM-1754 | Client side Acrobat Reader upgrade |
| • Change Proposal CHM-1756 | Client side upgrade from Cisco VPN Client to AnyConnect |
| • Change Proposal CHM-2359 | Introduction of DNS Service in EAD |
| • Change Proposal CHM-2487 | Client side Browser upgrade |
| • Change Proposal CHM-2489 | All EAD websites shall be SSL only |
| • Change Proposal CHM-2515 | Strengthen cryptography by increasing VPN and ESI certificates key size |
| • Change Proposal CHM-2516 | Two-step authentication for internet facing services: EAD Service Desk |

10.1 Client side Java upgrade (CHM-1753)

The client side Java version for EAD is upgraded to version 1.7.0_40.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

10.2 Client side Acrobat Reader upgrade (CHM-1754)

The Acrobat Reader on client workstations for EAD is upgraded to version XI.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

10.3 Client side upgrade from Cisco VPN Client to AnyConnect (CHM-1756)

Cisco VPN Client on client workstations is replaced with AnyConnect, which can be used to establish the VPN tunnel to EAD directly from the client workstation.

The remote assistance module FastViewer is upgraded to version 3.20.0031.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**
Update required for all workstations using VPN Client. User connected with Cisco HW are not affected.

10.4 Introduction of DNS Service in EAD (CHM-2359)

Currently the domain name resolution in EAD works via local hosts files on ECITs, Briefing Boxes, ESI APIs. To connect e.g. to the EAD application server, an entry for vead03 needs to be present in the local hosts file.

With R9 the local host file entries shall be replaced by a central DNS service providing name resolution for all domain names required in the EAD environment. This DNS service consist of a public DNS (available via Internet) as well as a DNS service which can be queried from within the EAD WAN. The service will feature high availability (multiple DNS servers), so that DNS does not become a potential single point of failure.

To access EAD Explorer, the host files are no longer required and user shall use the following URL in his/her browser:

<http://vead03.ead-ntp.com:8888/eadexplorer/EADExplorer.jnlp>

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**
Transition from host files to URL on all client workstations is required with R9 deployment.

10.5 Client side Browser upgrade (CHM-2487)

The Internet Explorer on client workstations for EAD is upgraded to version 10.

The Mozilla Firefox (secondary browser) on client workstations for EAD is upgraded to version 24.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**
Update of all client workstations is required

10.6 All EAD websites shall be SSL only (CHM-2489)

All EAD websites which are accessible via the Internet will be SSL only. The sites affected are:

- www.ead.eurocontrol.int
- EAD Basic
- EAD Service Desk and Knowledge Base
- xymon monitoring

An automatic redirect of non-SSL traffic to the SSL encrypted version will ensure that this change has only a minimal impact on the users of these websites.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

10.7 Strengthen cryptography by increasing VPN and ESI certificates key size (CHM-2515)

The currently deployed 1024 key size is no longer considered strong enough for current IT security levels. EAD will transition from the currently used 1024 key size in the VPN and ESI certificates to certificates featuring a 2048 key size.

The step will be accompanied by switching to a shared PKI service, which will generate certificates in a publicly trusted chain.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

10.8 Two-step authentication for internet facing services: EAD Service Desk (CHM-2516)

In addition to being available via EAD WAN, the EAD Service Desk application has also always been reachable via the Internet.

In order to strengthen security for the EAD Service Desk, all clients accessing the EAD Service Desk via internet and not via EAD WAN will be required to pass a two-step authentication process:

1. The user will log into an EAD web portal using his standard EAD credentials
2. The user will be sent an additional PIN code to his e-mail address on record
3. The user must enter this PIN code to continue on to the Service Desk application

Impact on OUH: Operational User Handbook – Data Provider, chapter 5
Operational User Handbook – Data User, chapter 5

Impact on user: Update of internal procedures to be considered: **Yes**

11 ESI/AIMSL

The following ESI/AIMSL changes are deployed with **Release 9**:

- Change Proposal CHM-2403 ESI: Server side DNS instead of EAD Starter
- Change Proposal CHM-2082 AIMSL: Register INO DU Web Services to AIMSL

11.1 ESI: Server side DNS instead of EAD Starter (CHM-2403)

The ESI Client API will resolve the server IP address using the DNS server. The EAD Starter libraries will be removed from the dependencies of the ESI Client API and the veado3 hostname will be replaced with a fully qualified domain name.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **Yes**

11.2 AIMSL: Register INO DU Web Services to AIMSL (CHM-2082)

The following INO DU Web Services are registered to AIMSL via SOAP:

1. INO-BF service provision for FPL and Briefing
2. INO DU maintain BF services
(Equivalent to the ESI request: INODU_BRIEFINGFACILITY_REQUEST)
3. INO DU receive BF messages

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

12 Common Services

The following Common Services changes are deployed with **Release 9**:

- Change Proposal CHM-1613 Common Address Book
- Change Proposal CHM-2400 EAD Basic New
- Change Proposal CHM-2452, 2453 Introduction of Work Flow Management Tool

12.1 Common Address Book (CHM-1613)

A Common Address Book is introduced in EAD. It provides a unified Web based user interface that is accessible via URL by client applications – to search for contact information **in various data sources** and a mechanism to return results to the client application's entry point (e.g. INO DU email field).

The users can retrieve information like phone number or email address for distributing information over dedicated communication channels (SMS, FAX and Email).

The Common Address Book will be usable from INO DP and INO DU applications.

Several parameters are configurable **per organisation and per data source** via Corporate Identity (CI) application:

- Web Service connection parameters: URL, port, user and password
- Display label (visible on the HMI identifying the data source)
- Mapping between fields defined in the data source and fields defined internally in the Common Address Book (e.g. email) which:
 - provides concatenation of arbitrary data source fields to one Common Address Book field
 - provides substring operations on data source fields
 - provides trim operations on data source fields

Name	Organisation	Location	Phone	AFTN	Email
Manfred Berger	DFS	Hamburg	+4912345	EDDHZZTX	M.berger@dfs.de
Alfred Bergman	DFS	München	+493232	EDDMZPZX	A.bergman@dfs.de

Figure 12-62 Common Address Book – Search

Impact on OUH: Operational User Handbook – Data Provider, chapter 2 and 9

Operational User Handbook – Data User, chapter 2 and 7

Impact on user: Update of internal procedures to be considered: **Yes**

12.2 EAD Basic New (CHM-2400)

EAD Basic is renewed by introducing new background content management and foreground user functionalities. The complete list of user functions is:

- PIB
 - Generate Aerodrome, Area, Route, Narrow-Route PIB
 - Briefing-Handbook (Saved Briefings)
 - Update PIB on Saved Briefings
- Search AIP Library
- Prepare My Flight
- Manage Personal Lists
 - Personal Aerodromes
 - Personal FIRs
 - Personal Routes
- SDO Reporting
- Feedback mechanism
- Pending registration

Prepare My Flight is a new capability allowing user to retrieve an integrated and printable report for selected aerodromes consisting of:

- Aerodrome Data including contacts and opening hours
- NOTAM
- AIP and Chart pages

Prepare my Flight

Start Date:	End Date:																
11/28/2011 11:35	11/29/2011 11:35																
Flight Rules:	Aerodromes (at least one field must be completed) *																
<input type="radio"/> IFR <input type="radio"/> VFR <input checked="" type="radio"/> IFR / VFR	<input type="text"/>																
AIP Documents:	<table border="1"> <thead> <tr> <th>ICAO Code</th> <th>FIR Code</th> <th>Aerodrome Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>LOWS</td> <td>LOVV</td> <td>SALZBURG - W. A. MOZART</td> <td>Aerodrome</td> </tr> <tr> <td>LOWK</td> <td>LOVV</td> <td>KLAGENFURT WORTHERSEE INTL.</td> <td>Aerodrome</td> </tr> <tr> <td colspan="4">Total: 2</td> </tr> </tbody> </table>	ICAO Code	FIR Code	Aerodrome Name	Type	LOWS	LOVV	SALZBURG - W. A. MOZART	Aerodrome	LOWK	LOVV	KLAGENFURT WORTHERSEE INTL.	Aerodrome	Total: 2			
ICAO Code	FIR Code	Aerodrome Name	Type														
LOWS	LOVV	SALZBURG - W. A. MOZART	Aerodrome														
LOWK	LOVV	KLAGENFURT WORTHERSEE INTL.	Aerodrome														
Total: 2																	
<input type="checkbox"/> AIC <input checked="" type="checkbox"/> AIP <input type="checkbox"/> AMDT <input type="checkbox"/> Charts <input type="checkbox"/> SUP																	

Submit

LOWS

LOWK

ICAO: LOWS
IATA: SZG
FIRs:
LOVV
AN: SALZBURG - W. A. MOZART
Type: AD

Date	PDF-Version	eAIP AIRAC	Document Heading
2010-10-22	LO AD 2 LOWS en 2010-10-22.pdf		LOWS AD 2.1 to LOWS AD 2.24

LOWS (SALZBURG - W. A. MOZART)

Q) LOVV/QOBCE/IV/NBO/A/000/999/4748N01300E005 B) FROM: 10/09/29 10:26 C) TO: 10/12/29 15:00 EST E) THREE CRANES ERECTED 1,25NM ENE ARP LOWS (SOUTH AND EAST LOSL), CRANES DAY AND NIGHT MARKED, ALT MAX 488M MSL.	A1671/10
Q) LOVV/QOAAH/IV/BO/A/000/999/4748N01300E005 B) FROM: 10/10/31 07:00 C) TO: 11/01/31 16:00 EST E) OPENING HOURS ATC OFFICE SALZBURG DAILY FROM 0700 TO 1600 UTC. RESPONSIBILITY: COORDINATION WITH LOCAL ATC. TEL.: +43 (0)5 1703 6555 FAX: +43 (0)5 1703 6556 AFTN: LOWSZPZX E-MAIL: AIS.LOWS (AT) AUSTROCONTROL.AT)	A1872/10

Figure 12-63 Prepare My Flight

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: No

12.3 Introduction of Work Flow Management Tool (CHM-2452, 2453)

A Workflow Management (WFM) tool is introduced in EAD. The tool is based on the COTS product @enterprise and it provides functionality for business process management and execution, document management and reporting. WFM is a key element for EAD ADQ compliance, providing traceability and control throughout the lifecycle of a data element.

WFM is a system, which:

- supports the modelling of workflow specifications
 - Process definition
 - Organizational structure
- controls the execution of workflow instances

- Automatic routing of a process instance to the next responsible agent according to its process definition
- provides information about running processes
 - Monitoring – Where is my process instance now?
- automatically documents the processes
 - History – who executed that activity when?

A process is one individual business transaction. It is a sequence of several manual tasks/activities which are performed by a person (agent/actor). It has a dedicated start and end, and in between several tasks.

As soon as one task has been completed by its actor, the next task appears in the work list of its assigned role and so on until the end of the process has been reached.

A pilot group of data providers are provided with WFM access and will start using the process from R9 onwards. WFM will be supported by dedicated Service Desk that is available to members of the pilot group. In order to join the WFM pilot group, please contact piret.kikas@eurocontrol.int. WFM provides a flexible user/permission handling. It is based on organisation units and their hierarchies, users and roles. The roles foreseen to cover R9 workflows are:

- Data Request Responsible
- Data Originator
- Data Origination Approver
- Additional Approver
- AIS Officer
- AIS Coordinator
- Charting Responsible
- Final Reviewer
- SDO Operator
- AIP Responsible
- Publication Responsible
- Publication Approver
- User Administrator

The following pre-defined workflows are created and configured with R9 for the operational use by EAD Data Providers:

- PR1 Data Origination Process
- PRX Data Initial Assessment Process
- PR2 SDO Update
- PR3 Charting Process
- PR4 AIP Update
- PR5 Publication

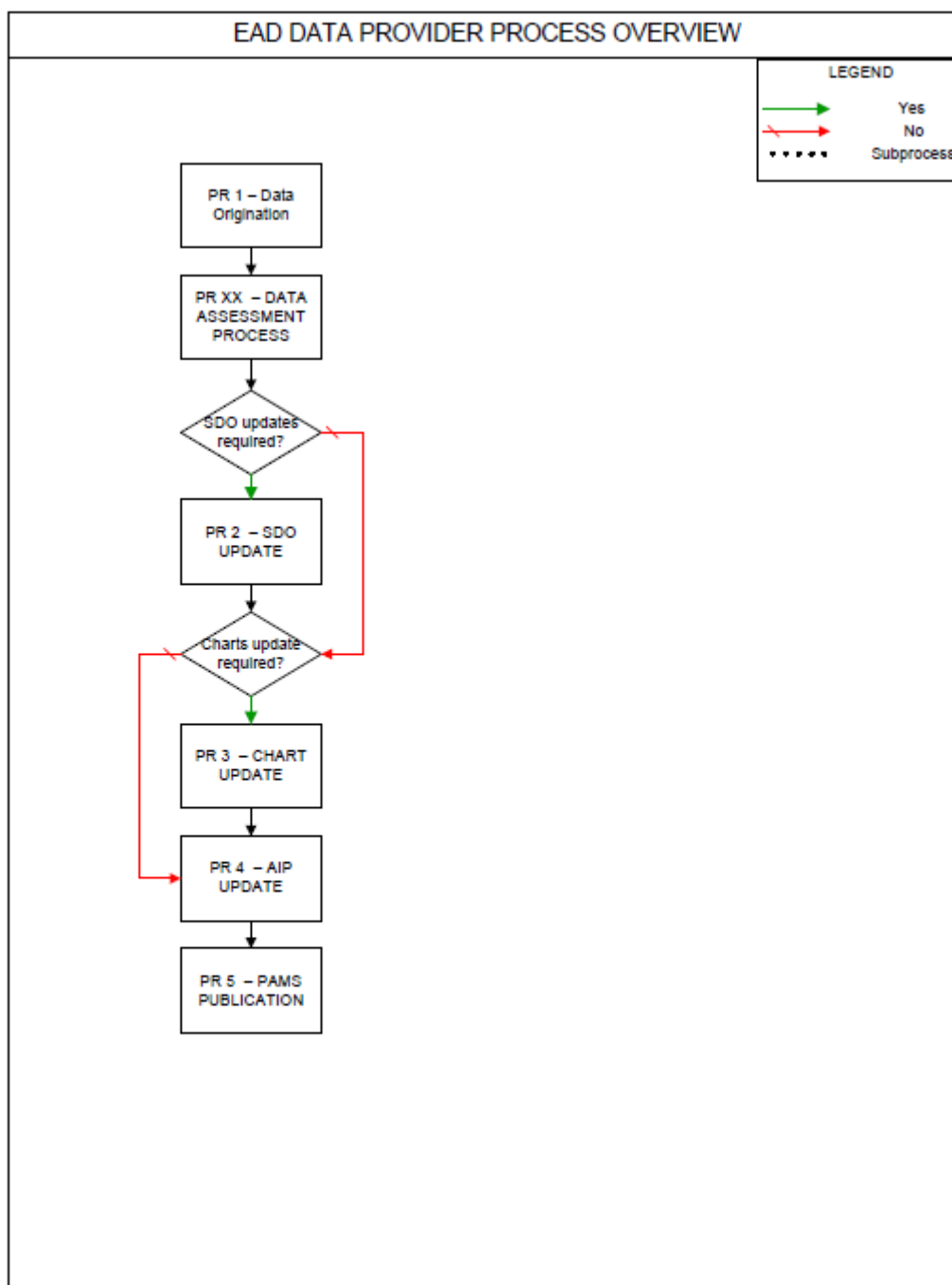


Figure 12-64 Data Provider Data Process Overview

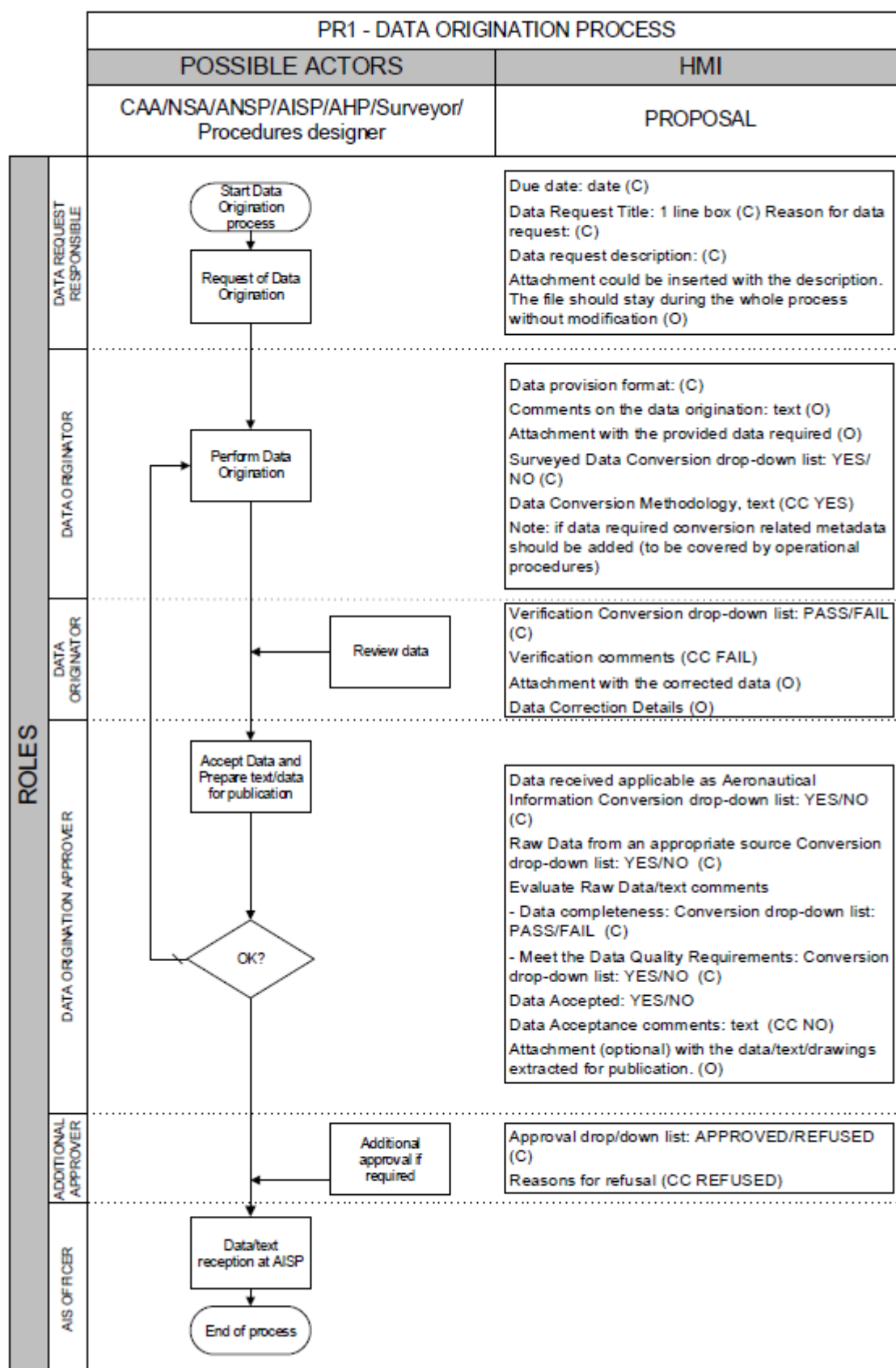


Figure 12-65 PR1 – Data Origination Process

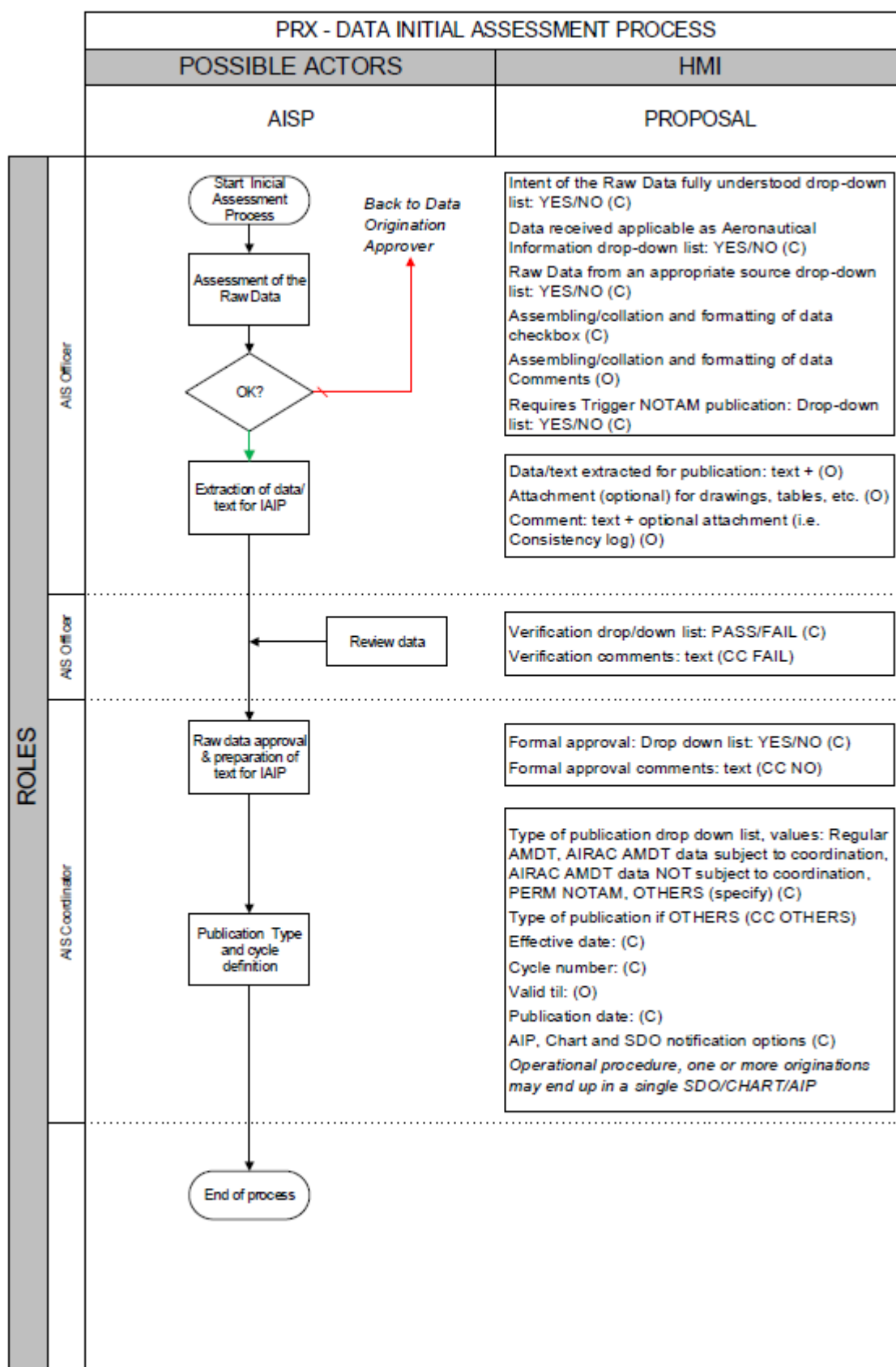


Figure 12-66 PRX – Data Initial Assessment Process

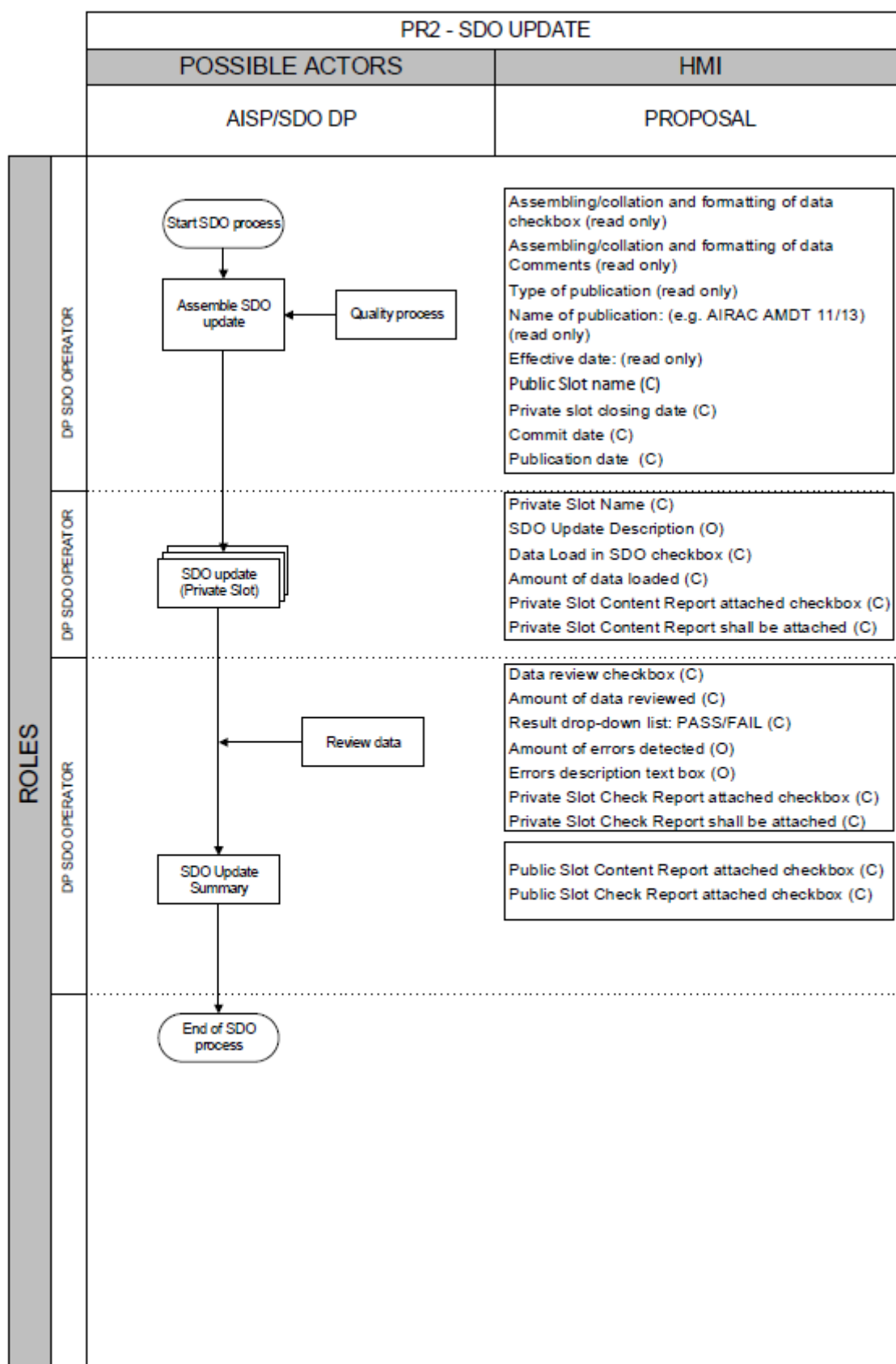


Figure 12-67 PR2 – SDO Update

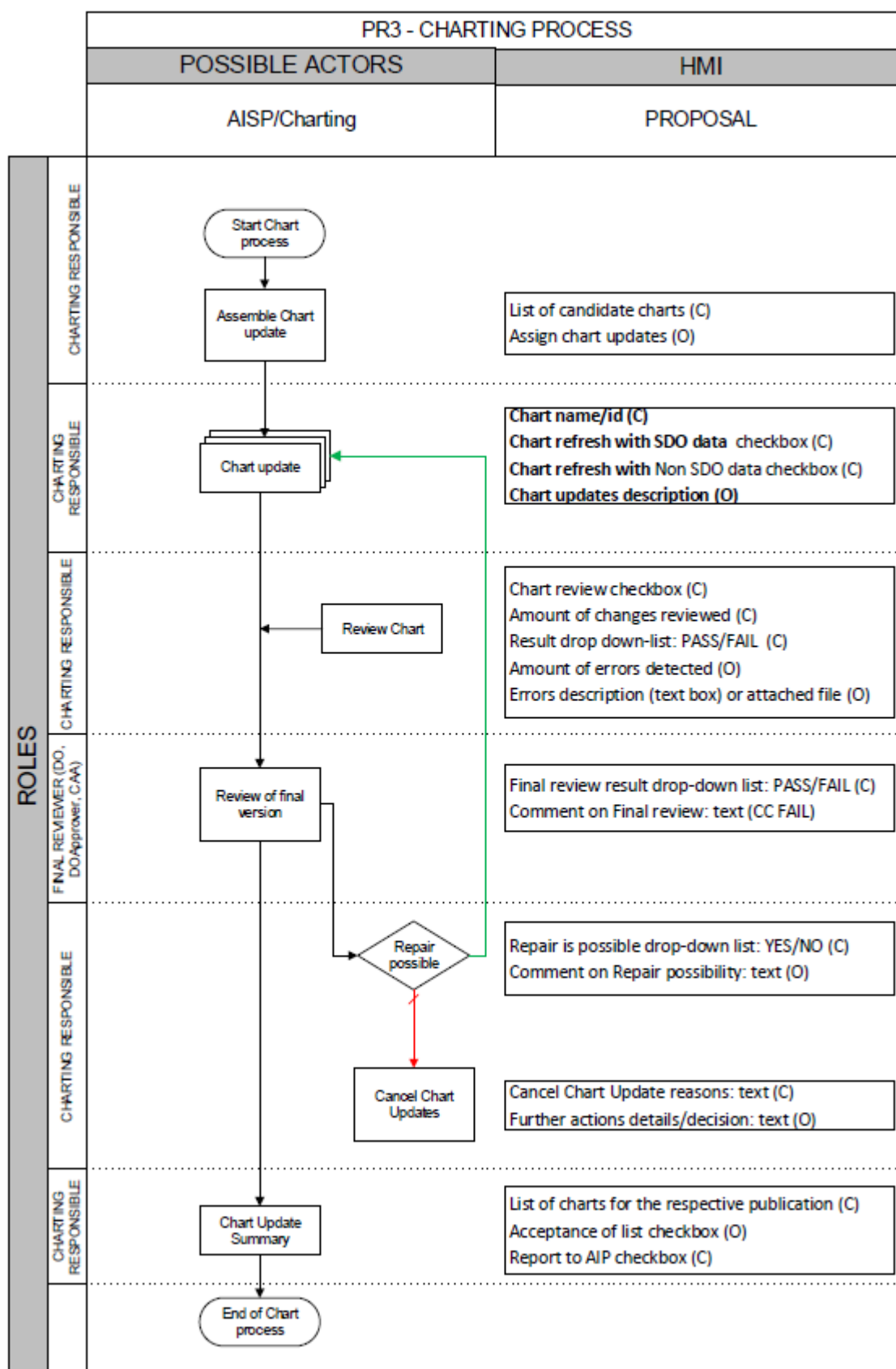


Figure 12-68 PR3 – Charting Process

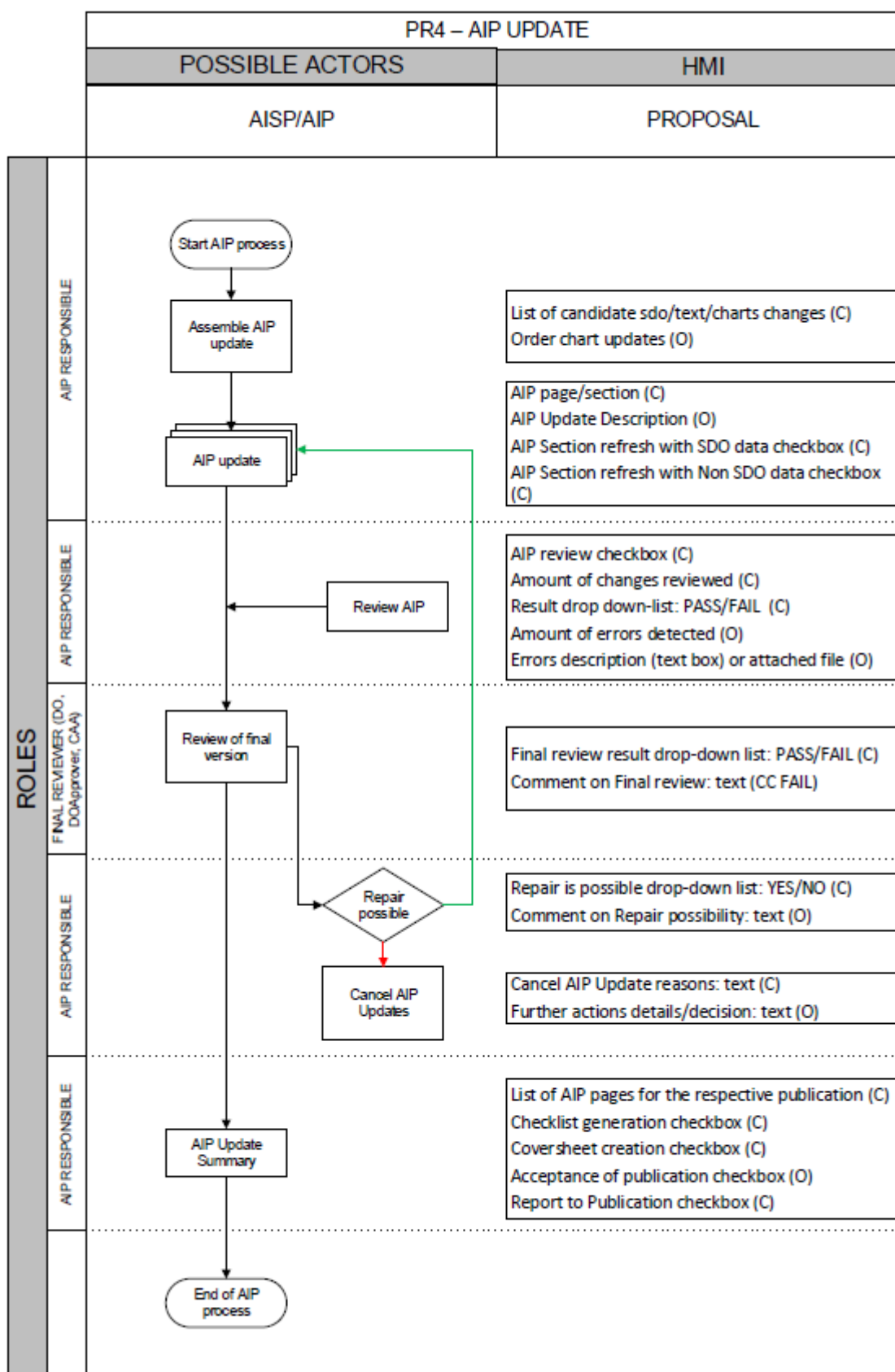


Figure 12-69 PR4 – AIP Update

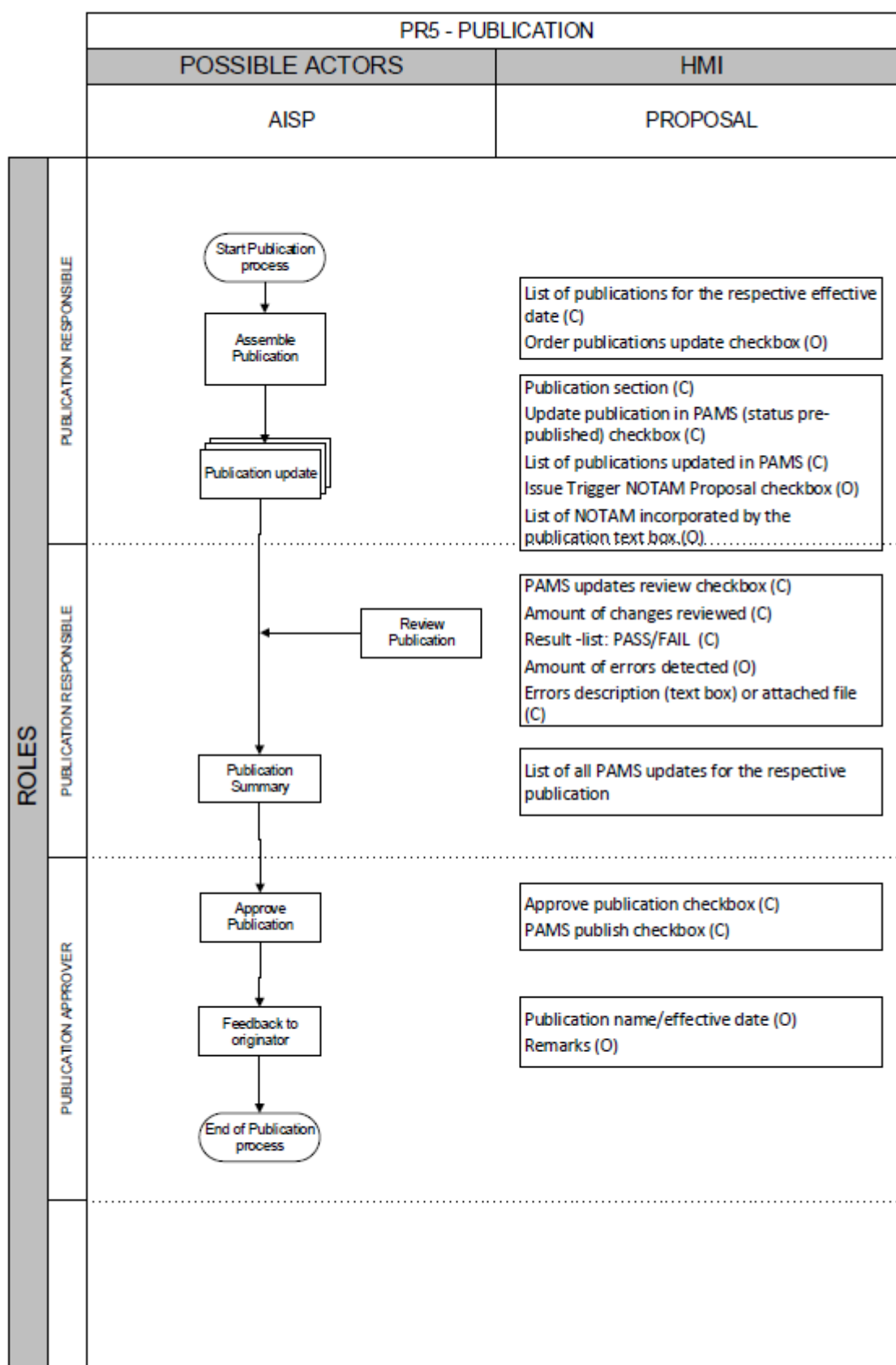


Figure 12-70 PR5 – Publication

Impact on OUH: Operational User Handbook – Data Provider, new chapter

Impact on user: Update of internal procedures to be considered: **Yes**

13 Hardware/LAN

The following Hardware/LAN changes are deployed with **Release 9**:

- Change Proposal CHM-1199 Dedicated SDO Reporting database
- Change Proposal CHM-2490 Decommissioning of 3rd EAD Site

13.1 Dedicated SDO Reporting database (CHM-1199)

A dedicated reporting database is provided with a read only copy of EAD database on a separate server. This database is used for SDO DU functionality.

The goal of this change is to provide additional capacity for the increased usage of SDO DU reports and to avoid performance impacts of complex SDO reports on other parts of the EAD.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

13.2 Decommissioning of 3rd EAD Site (CHM-2490)

The EAD 3rd IT site (located in Canada) is decommissioned from use as EAD site.

Impact on OUH: No

Impact on user: Update of internal procedures to be considered: **No**

14 Abbreviations and Definitions

AFTN	Aeronautical Fixed Telecommunication Network
AIC	Aeronautical Information Circular
AIMSL	AIM Service Layer
AIP	Aeronautical Information Publication
AIRAC	Aeronautical Information Regulation and Control
AIS	Aeronautical Information Services
AIXM	Aeronautical Information Exchange Model
ANSP	Air Navigation Service Provider
AoR	Area of Responsibility
APP	Application Server
BF	Briefing Facility
CFMU	Central Flow Management Unit
CHP	Chart Production
CIDIN	Common ICAO Data Interchange Network
CM	Configuration Management
COTS	Commercial of the shelf
CSO	Client Security Officer
DOP-C	Data Operation Centre
DTD	Document Type Definition
EAD	European AIS Database
EC	EUROCONTROL
ECAC	European Civil Aviation Conference
ECIT (EAD PRO)	EAD Client Interface terminal
EDD	Element Definition Document
ESI (My EAD)	EAD System Interface
FAM	Flight Activation Monitoring
FIR	Flight Information Region
FTM	Free Text Message
GUI	Graphical User Interface
ICAO	International Civil Aviation Organisation
INO	International NOTAM Operation
IT	Information Technology
LAN	Local Area Network
LRI	Legal Recording Investigation
MHS	Message Handling System
NOF	NOTAM Office
NOTAM	Notice to Airmen

NOTAMC	Cancellation of a NOTAM
NOTAMR	Replacement of a NOTAM
OPADD	Operational Procedures for AIS Dynamic Data
OUH	Operational User Handbook
PAMS	Published AIP Management System
PIB	Pre-Flight Information Bulletin
RWY	Runway
SDO	Static Data Operation
SDD	Static and Dynamic Data
SLS	Service Level Specification
SSO	Single Sign On
SUP	(AIP-SUP) Supplement
SW	(Computer) Software
TAM	Collective term for: NOTAM, SNOWTAM, BIRDTAM, ASHTAM
TCP/IP	Transmission Control Protocol / Internet Protocol
TOC	Table of Contents
UE	User Extension
UMA	User Management Agent
URL	Uniform Resource Locator
VPN	Virtual Private Network
WAN	Wide Area Network
WFS	Web Feature Service Interface Standard
XML	Extensible Mark up Language